

# **The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence**

**by**

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## Summary

In its proposed framework for validating Ofqual-regulated assessments, Ofqual identifies four key areas of evidence on which validity arguments should be based. One key area is the alignment between assessment and the curriculum/syllabus. The work reported here demonstrates a method for producing a source of validity evidence that falls under this category: the comparison of the intended and achieved weightings of assessment objectives at qualification and question paper level. Screening data was produced at unit-subject level for the majority of AQA GCSE and A-level specifications while six individual specifications were further analysed at the question-unit level. Where problems with achieved weightings occurred, some possible issues – both general to common assessment structures and paper-specific – were identified that could be fed back into the specification design and examination paper-writing processes. The complexities of interpreting and improving the achieved weightings of assessment objectives, in a context in which they are only one of a number of interrelated facets of validity, are discussed.

## Introduction

Validity is the concern that any inferences made from, or actions based on, the results obtained from a measurement instrument are supported by theory and evidence. Validity is a matter of degree and it is attached to the uses of the measurement instrument, rather than the instrument itself. Thus, for example, there may be a strong validity argument for using a given test to select applicants for entry to one occupation but a much weaker argument for using it to select for entry to another occupation.

In its proposed framework for validating Ofqual-regulated assessments, Ofqual identifies four key areas of evidence on which validity arguments should be based. The work reported here addresses a potential source of validity evidence that falls under category 1: Alignment between assessment and the curriculum/syllabus. The intended weightings of assessment objectives reflect the relative importance placed on them by those setting the subject criteria and examining the subject. The intended weightings are normally reflected in the number of marks assigned to each assessment objective; however, there are various factors that can result in the achieved weightings being different. If the achieved weightings are very different from those intended, the most successful candidates may not be those who achieve the intended balance of knowledge and skills but rather those whose performances are biased towards certain types of knowledge or skills.<sup>1</sup> This would constitute a threat to the use of the assessment for certification per se as well as to subsequent selection decisions by employers and higher education institutions.

The subject criteria for general qualifications specify assessment objectives for the subject including lower and upper limits on the proportion of marks that must be dedicated to them. The choice of assessment objectives and the intended weight given to them in the examination are matters of validity; however, assuming that the assessment objectives and their intended weightings are valid for the purposes of the qualification, it remains possible that the weightings achieved in each assessment and in the qualification overall are not those intended. For example, if an assessment objective is tested on a disproportionate number of relatively easy – or difficult – questions, candidates' scores on

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<sup>1</sup> Of course, GCSE and A-level assessment permits compensatory performance within and across units of assessment, so not all candidates will have the same – or the ideal – performance profile; problems with achieved weightings are likely to favour particular performance profiles, though, and are therefore undesirable.

those questions may be homogeneous and therefore will not contribute to candidates' final rankings as much as if the questions had produced a greater spread of marks. Similarly, certain types or lengths of question may provide greater discrimination between candidates and will therefore achieve greater weight. If particular assessment objectives are associated with particular types or lengths of questions, there is a risk that the achieved weight of the assessment objectives is not as intended. The same could be true of types of assessment. Candidates typically perform better at coursework and practical assessments than at external examinations, resulting in negatively skewed distributions of marks. Where this results in a compressed range of marks, relative to the externally assessed unit(s), the coursework may fail to meet its intended weighting. Consequently, any assessment objectives that are overrepresented in the coursework unit will be underweighted in the overall assessment.

The work reported here investigates the achieved weightings of assessment objectives in GCSE and A-level qualifications. There are two levels at which achieved weightings of assessment objectives can be analysed: firstly, in relation to the achieved weightings of units at qualification level; secondly, in relation to the achieved weightings of questions at unit level. For a full understanding of the achieved weightings of assessment objectives, the two levels of analysis must be considered. Here, we report the first level of analysis for the vast majority of AQA GCSEs and A-levels and follow this up with analyses at the second level for a selection of specifications at GCSE and A-level, including some in key subjects such as Maths and Science, as well as specifications identified as potentially problematic in the first level analyses. In the absence of a central electronic system that routinely links assessment objectives with individual questions, the work must be done ad hoc and manually from paper records; therefore, the second-level analyses are, necessarily, more limited in number. To make this a routine exercise, data on the intended associations between questions, or part-questions, and the assessment objectives need to be collected as a matter of routine in some authoritative way, such as from Principal Examiners or item writers and test constructors, depending on the process.

The purpose of the study is twofold: 1) to explore the achieved weighting of assessment objectives as a facet of validity and to establish a method for investigating and reporting on it; 2) where problems with achieved weightings are identified, to consider the possible causes and solutions that may be fed back into the specification design and examination paper-writing processes.

## Method

The method used in this study is a potential screening device for identifying examinations in which the intended achieved weights of the assessment objectives are not achieved. Currently, the achieved weightings of units are calculated routinely. The intended weights of assessment objectives for each unit are contained in the specifications and could easily be combined with the unit weighting analysis to describe the weighting of assessment objectives at subject level via the unit weightings. This analysis assumes that, within each unit, the assessment objectives have achieved their intended weights. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units.

Thanks to computerised item-level marking, question-level data is increasingly available for GCSE and A-level units. The intended weightings of assessment objectives at question level are not systematically recorded or collected currently; future implementation of this could lead to the question-level analysis of assessment objective weightings being automated to describe the weighting of assessment objectives at unit level via the question weightings.

Qualifications could be screened at both unit-subject and question-unit level to identify instances where the achieved weights of assessment objectives are persistently and unacceptably greater or

less than intended. This report will present the full screening evidence, provide some commentary on particular specifications where appropriate, and look in detail at six cases where interesting effects were seen.

For efficiency's sake, the specifications subjected to question-level analyses consist of units for which item level data is electronically captured at the time of marking. This is necessary to analyse the weighting of questions within units. Using mark schemes, the assessment objectives addressed by items are identified and their achieved weightings calculated at unit and qualification levels. For coursework and controlled assessment units, item level data is not available, so the analysis can only address the weighting of the unit at qualification level but not the weighting of questions at unit level.

The formula for calculating the achieved weighting of units (and thereby their assessment objectives) at qualification level is:

$$\text{Achieved Weight} = \frac{\text{rct} \times \text{sc} \times 100}{\text{st}}$$

where  $\text{rct}$  = part-with-whole correlation coefficient between unit marks<sup>2</sup> and the total marks

$\text{sc}$  = standard deviation of unit marks

$\text{st}$  – standard deviation of total marks.

For calculating the achieved weights of questions (and thereby their assessment objectives) at unit level, substitute “item marks” for “unit marks” and “total unit marks” for “total marks”.

This equation combines two factors associated with the weight a unit achieves. The *part-with-whole correlation coefficient* measures the relationship between candidates' marks on a single unit and the total of their marks over all the units. The higher the correlation, the more closely the rank order on the unit resembles the final rank order, thus the greater its influence on the total marks; or, the greater its achieved weighting is. The *relative standard deviations of the unit marks* also affect the achieved weights of the units. The unit with the greater standard deviation of marks has a greater effect on the final rank order (assuming the correlations between the unit marks and the total marks are the same).

Whilst test developers can exert the most control over achieved weightings at the item level, there is a lot that can occur during the grading, scaling and aggregation process that can distort these values in a potentially unanticipated manner. Where an assessment is anything more than the simplest design, such as linear scaling and no optional routes (including different tiers), interpreting the achieved weightings and evaluating the impact on them of changing the assessment becomes challenging. For example, if a raw mark grade boundary were placed one mark differently, this would affect the spread of marks because it is the spread of uniform marks that becomes important or, if more foundation tier candidates were capped in a given series, this would affect the unit-subject correlation and could, therefore, impact on the achieved weight.

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<sup>2</sup> The unit-subject analyses use uniform (UMS) marks because: (i) the conversion from raw to uniform marks changes the relative spread of marks on the unit; (ii) non-linearity in the conversion may affect the rank order of candidates and, therefore, the unit-subject correlations; and (iii) we would otherwise need to limit the analyses to a subset of candidates who all sat the various papers in the same series. The question-unit analyses use the raw marks.

### **A note on tiered units**

The intended weight of a unit is defined as the percentage of the total uniform marks available for a specification that can be obtained from the unit in question. For example, in a typical GCSE with a specification level maximum uniform mark of 200, units with maximum uniform marks of 80 and 120 have intended weights of 40% and 60%, respectively. For GCSE specifications containing tiered units, this definition is undermined, since, following the description provided above, candidates sitting units at higher or foundation tiers have different unit level uniform marks available to them. This issue is discussed in detail by Stockford (2012). The approach taken to defining the intended weight for foundation tier units here follows his advice, which is to use the maximum uniform marks available for the equivalent higher tier unit. This is a reasonable approach because the full range of uniform marks is available to every candidate prior to their choice of entry tier and it would be perverse to change the intended weight of the units – and, more importantly, the assessment objectives – according to that choice. Candidates entering for the foundation tier appropriately will not miss out on any marks available only on the higher tier, as they should, by definition, not be able to access them.

### **Analyses Part 1: Unit-Specification Weightings**

The analyses are presented separately for GCSE and A-level specifications. For each, there are two tables: one showing the intended and achieved weightings of assessment objectives by unit and another summarising the intended and achieved weightings at specification level.

Clearly, the ideal outcome is that the achieved weightings of the assessment objectives equal the intended weightings. What is difficult to judge is how significant any deviation from the intended weightings is. Should we be concerned with the absolute size of deviation? Or, if an assessment objective is intended to be weighted at 10% and achieves 8%, should we be more worried than if an assessment objective intended to be weighted at 30% achieves 28%: a 20% difference compared with a 6.7% difference. In the summary tables (Table 38 and Table 40), the absolute differences have been flagged where they are not between -1 and 1 percentage points of the intended weight. The proportional differences have been flagged where they are not between -10% and 10%. Commentaries on subject routes with flags are provided where there are greater than 500 entries.

#### **Commentary on GCSE analysis (Table 37, Appendix 1, p.79 and Table 38, Appendix 2, p.95)**

These commentaries provide brief descriptions of the circumstances in which the achieved weights of units have led to the achieved weights of the assessment objectives falling outside of the tolerances specified above. They are to be read in conjunction with the tables and their intended audience comprises awarding organisation staff and examiners, so might require rather more unpacking for interested laypersons.

**Applied Science** (pages 80, 95) – The double award in Applied Science comprises three portfolio units intended to contribute a total weight of 65% and a written unit intended to contribute 35%. The written paper (unit 2) is tiered and the most common route is the foundation paper (route 0), with greater than ten times the number of entries as the higher tier route. The achieved weight of the written paper is approximately 10% less than intended. The results is that AO1, which is associated mostly with the written paper, is underweighted, whilst AO3, associated mostly with portfolio units 3 and 4, is overweighted. AO2 is spread more evenly across the four units and near-enough achieves its intended weight.

**Additional Applied Science** (pages 79, 95) – Additional Applied Science comprises two portfolio units intended to contribute a total weight of 60% and a written unit intended to contribute 40%. The written paper (unit 2) is tiered and the most common route is the foundation paper (route 0), with

greater than six times the number of entries as the higher tier route. On both tiers, the achieved weight of the written paper is closer to 25% than to the intended 40%. The distribution of assessment objectives is very similar to those in Applied Science and, consequently, AO1 is underweighted, AO2 correctly weighted, and AO3 overweighted.

**Citizenship Studies** (pages 81, 96) – The short course unit 1 (written) is underweighted whilst unit 2 (controlled assessment) is overweighted. AO1 is assessed in both units thus its overall weighting is satisfactory. In contrast, AO2 is measured only in unit 2 and is thus overweighted, whilst AO3 is measured only in unit 1 and is thus underweighted. These units are common to the full course and units 3 (written) and 4 (controlled assessment) mirror the assessment objectives and disparity of weightings of units 1 and 2.

**Dance** (pages 82, 96) – Unit 1 (written) and unit 2 (externally assessed practical) are both underweighted whilst units 3 and 4 (controlled assessment) are both overweighted. The result of this is that AO1, which is concentrated heavily in the written paper, is underweighted whilst AO2 and, to a lesser degree, AO3, which are concentrated heavily in the controlled assessments, are overweighted.

**Drama** (pages 82, 96) – Unit 1 (written) achieves a higher weight than intended whilst unit 2 (controlled assessment) achieves a lower weight. AO1 is assessed in both units and achieves a slightly higher weight than intended. AO2 is assessed only in unit 2, so it is underweighted. AO3 is assessed only in unit 1 and is thus overweighted. AO2 is a practical skill and therefore can only be assessed in the practical unit. The key to achieving a more satisfactory balance is to improve the discrimination on unit 2 so that it contributes more to the rank order of candidates at subject level.

**Human Health & Physiology** (pages 88, 98) – At both foundation and higher tier level, unit 1 (written) achieves a greater weight than intended whilst unit 2 (controlled assessment) achieves less than its intended weight. AO1 and, to a lesser extent, AO2 are concentrated in unit 1 and are thus overweighted, whilst AO3, which is concentrated in unit 2, is underweighted. Again, because AO3 is practical in nature, its underweighting cannot be resolved by assessing it in the written unit; rather, the discrimination provided by the practical unit would need to increase.

**Modern Foreign Languages** (Table 37 from page 79, Table 38 from page 95) – The structure of MFLs is such that there is one unique assessment objective per unit. There is a general pattern across many of the language specifications in which AO1 (listening) and AO3 (reading) are underweighted whilst AO2 (speaking) and AO4 (writing) are overweighted. This is broadly true of: Bengali (route 3); French short course (route 0); French full course (routes 0, 1, 3); German full course (routes 0, 1, 2, 3); Italian (route 2); Panjabi (route 2); Polish (route 0); and Spanish full course (routes 0, 1, 3).

In the case of the purely higher tier route through French full course (route 2) the achieved weightings of the four assessment objectives are each within 1% of their intended weights. In the case of the purely higher tier route through Spanish full course (route 2) the achieved weightings of the assessment objectives are considerably closer to their intended weightings and, in contrast to other routes, AO1 and AO3 are slightly overweighted and AO2 and AO4 are slightly underweighted. Urdu (route 2) follows a similar pattern, except that AO1 is correctly weighted.

The data suggest that, generally, the speaking and writing assessments do more to discriminate between candidates in modern foreign language examinations than do listening and reading assessments. This appears to be especially true when one or both of the listening and reading assessments are taken at foundation tier level. It might be that this is an artefact of tiering – and analysing the data by route – so that an overall analysis of weightings, using uniform marks to combine the tiers, would eliminate this tendency for AO1 and AO3 to be overweighted at the expense of AO2 and AO4.

**PE** (pages 90, 99) – Both the short course and the full course consist of a written unit (1) worth 40% and a controlled assessment unit (2) worth 60%. In the short course, the written paper achieves less than its intended weight; consequently, AO1 – assessed exclusively by the written paper – and AO3 – assessed predominantly by the written paper – are underweighted, whilst AO2 – assessed exclusively by the controlled assessment – is overweighted. In the full course, it is the controlled assessment that is underweighted, thus AO1 is overweighted and AO2 is underweighted. AO3 is approximately as intended.

**Commentary on A-level analysis (Table 39, Appendix 3, p.103 and Table 40, Appendix 4, p.124)**

There is a general point about A-levels that is worth making here. The AS and A2 units represent different standards, with the AS being less demanding than the A2. A consequence of this is that the AS units tend to discriminate between A-level candidates less well than the A2 units do and thus the intended 50:50 weighting of the AS:A2 is often imbalanced in favour of the A2 (see General Commentary on Analyses on page 10). Intentionally or not, the overweighting of the A2 is a characteristic of A-level design – it is a direct consequence of making the early units less demanding than the later ones – and it is not necessarily undesirable for the more challenging content to carry greater weight for the final A-level grade. It is a matter of judgement as to whether the deviation from the intended weighting of assessment objectives at specification level is acceptable. Only where assessment objectives are divided unevenly between AS and A2 might there be an issue.

**Biology** (pages 104, 124) / **Chemistry** (pages 105, 124) / **Physics** (pages 117, 128) – The sciences share a common structure, where the AS and A2 each comprise two written papers plus either teacher-assessed coursework (denoted by 3T/6T) or an externally assessed practical (denoted by 3X/6X). There is a general pattern across the sciences of units 4 and 5 – the A2 written papers – achieving above their intended weights, leading to AO2 being overweighted at subject level. The unit 3s (AS coursework/practical) tend to be underweighted, leading to AO3 being underweighted at subject level. This tends to occur regardless of whether unit 3 is coursework (T) or externally-assessed practical (X), although the weightings are generally closer to the intended weights when unit 3 is externally assessed. At A2, there is a tendency for the unit 6 coursework (T) to be slightly underweighted but not the externally-assessed practical (X). Consequently, the weighting of the A2 unit 6, and the overall weighting of AO3, depend to some extent on the mode of assessment of unit 6.

**Citizenship Studies** (pages 106, 124) – Citizenship comprises four written papers. Both AS units achieved approximately 5% less than their intended weights. Unit 3 achieved over 8% more than its intended weight whilst unit 4 achieved a little over 1% more than intended. AO1 and, to a greater extent, AO3 are concentrated in the AS units and are thus underweighted compared with AO2, which is concentrated in the A2 units, and AO4, which is assessed exclusively at A2.

**Communication & Culture** (pages 106, 125) – The assessment consists of a written paper and a coursework unit at both AS and A2. Both AS units are underweighted so the weighting of the AS:A2 is nearer to 40:60 than the intended 50:50. AOs 2 and 4 are reasonably evenly divided between the AS and A2 units, so the imbalance between the weighting of the AS and A2 units has a largely self-correcting effect in terms of the weighting of assessment objectives at A-level. The same is not true of AO1, which is concentrated most heavily in the AS units, or AO3, which is concentrated mainly in the A2 units. Consequently, AO1 is somewhat underweighted at subject level, whilst AO3 is somewhat overweighted.

**Drama & Theatre Studies** (pages 108, 125) – The assessment consists of two written papers – one at AS and one at A2, each worth 30% of the A-level – and two practical coursework units – again, one at AS and one at A2, but each worth 20% of the A-level. The notable differences between the intended and achieved weights of the units is that the AS practical coursework (unit 2) is

underweighted by approximately 5% and the A2 written paper (unit 3) is overweighted by approximately 8%. Consequently, AO1, which is assessed exclusively by the practical coursework units, is underweighted by approximately 5%, whilst AO3, which is concentrated heavily in the A2 written paper (unit 3) is overweighted by more than 4%.

**History** (pages 111, 126) – Units 1-3 are written papers and unit 4 is coursework. There are many optional units available in History, combining to make thousands of possible routes to certification; the most popular combination boasts only 514 candidates. Despite these many routes, there is a tendency amongst the most popular ones, included in this analysis, for unit 3 to be overweighted at the expense of the AS units, particularly unit 2. Consequently, AO3 – assessed mainly in unit 2 – is often underweighted, whilst AO4 – assessed predominantly in unit 3 – is often overweighted.

**History of Art** (pages 115, 127) – The assessment consists of four written papers. Both AS units achieve -5 to -6% below their intended weights, whilst the A2 units, 3 and 4, are overweighted by approximately 3% and 8%, respectively. The distribution of assessment objectives across units is fairly uniform with the exception of AO4, which is assessed only at A2. Consequently, the only remarkable impact of the imbalance of units is the overweighting by 2.6% of AO4 in the overall A-level assessment.

**Media Studies** (pages 116, 127) – See separate commentary below.

**Music** (pages 116, 127) – Music comprises six units. The AS units are (1) a written paper, (2) an externally assessed coursework, and (3) an internally assessed coursework (performance). The A2 units are (1) a written paper, (2) an externally assessed coursework, and (3) an externally assessed coursework (performance). Units 2 and 5 have three optional units each, so there are numerous routes to certification. In the routes analysed here, the AS units tend to be underweighted, in particular the AS performance unit (3). This is unsurprising, as it is likely that most people who opt to study music at A-level will be reasonably accomplished performers and therefore achieve high grades on the AS practical unit. At A2, there is a tendency for the written paper, unit 4, to be considerably overweighted, with the coursework units achieving closer to their intended weights. The result of this is that AO1, which is assessed only on the performance units (3 & 6), is underweighted, whilst AO3, which is assessed only on the written papers, is overweighted.

**PE** (pages 117, 128) – The assessment consists of a written paper and a (largely performance-based) coursework unit at both AS and A2. The assessment objectives covered by the written papers (units 1 & 3) are almost mutually exclusive to those covered by the coursework units (units 2 & 4): AO1 is assessed on units 1 and 3 only; AO2 is assessed on units 2 and 4 only; and AO3 is largely assessed on units 1 and 3, but also on unit 4. Both written papers are overweighted – by around 4% at AS and 7% at A2 – but it is the performance of the coursework that is of greatest concern. Although unit 4 is very close to its intended weight, unit 2 has achieved less than half its intended weight of 20%. The exclusivity of AO2 to the coursework units means that this underweighting of unit 2 leads to the underweighting of AO2 by -11.1% at A-level and the overweighting of AO1 and AO3 by +7.5% and +3.6%. PE is another example of a subject where those people opting to take it are likely to do so because of their enthusiasm and aptitude for the practical unit, so it is unsurprising when the AS practical unit does not seem to discriminate effectively. This often means, rather perversely, that the aspect of a subject which attracts candidates to a course, and which they mostly do very well at, contributes much less to their final A-level grades than is intended.

### **General Commentary on Analyses**

The following analysis, rather than serving as a diagnostic tool for particular senior examining teams, is intended to be a more general piece of research evidence that can easily be extracted from the

dataset created for the study. It considers whether there is a tendency for coursework and controlled assessment units to be under-weighted more commonly than written papers.

### *GCSE*

(Table 37, Appendix 1, page 79; Table 38, Appendix 2, page 95)

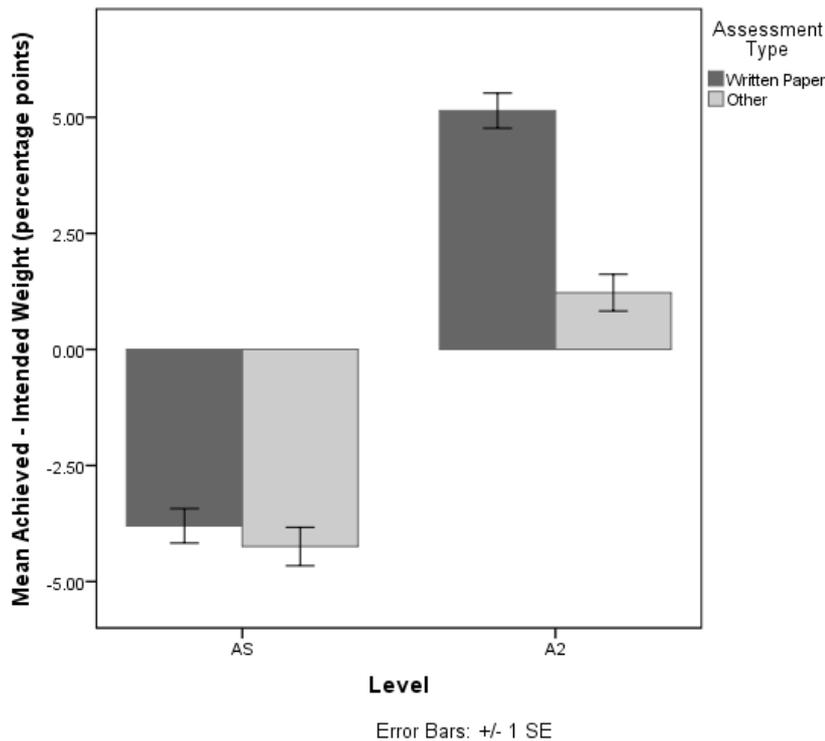
The most popular routes through each specification were selected, including short courses, and the units classified as written examinations or 'other' (including coursework, practical, and oral examinations). Where specifications are tiered, the most popular pure foundation tier and pure higher tier routes were included. Obviously, controlled assessment units that are common to two or more specifications, e.g. the foundation and higher tier routes and/or a short and a long course, are necessarily double counted, but candidates are not double counted.

The mean of the differences between the achieved weights and the intended weights of units is negative for the written papers – mean = -0.84 (SE = 0.45), N=143 – and positive for the 'other' units – mean = 0.91 (SE = 0.43), N=132. The difference between these differences is statistically significant –  $t(273) = 2.81$ ,  $p = .005$  (equal variances assumed) – but the size of the average difference is small and unlikely to be of any systematic practical consequence.

### *A-Level*

(Table 39, Appendix 3, page 103; Table 40, Appendix 4, page 124)

The most popular route for each specification was selected and the units classified as written examinations or 'other' (including coursework, practical, oral examinations, etc.). Given the tendency for AS units to achieve below their intended weights compared with the A2 units, when they form part of an A-level, the analysis included AS/A2 as a factor. Figure 1 shows the mean difference between the achieved weights and the intended weights of the units broken down by level (AS/A2) and type (written paper/other). The tendency for the underweighting of the AS units and the overweighting of the A2 units is clear [ $F(1,210)=261.97$ ,  $p<.001$ ]. It also appears that the written paper units achieve relatively more weight than other units [ $F(1,210)=24.04$ ,  $p<.001$ ] but that this depends on whether or not they are AS or A2 units [ $F(1,210)= 15.23$ ,  $p<.001$ ], with there being no reliable difference between written and other papers at AS [ $t(105)=0.70$ ,  $p>.05$ ] yet a reliable difference of approximately 4 percentage points at A2 [ $t(105)=6.27$ ,  $p<.001$ ].



**Figure 1. The mean differences between the achieved weights and the intended weights of AS and A2 written paper and ‘other’ units.**

The difference between GCSE and A-level might be explained by the fact that controlled assessment – prevalent at GCSE – is more exam-like than coursework – still the most common form of centre assessed work at A-level – and that the timed element in controlled assessment produces greater discrimination than is achieved in coursework. The other main differences between controlled assessment and coursework are that the current GCSEs – and, therefore, the controlled assessment units – are newer than the current A-levels – and their coursework units – but, perhaps more importantly, that the controlled assessment tasks change regularly, whereas coursework tasks tend not to. This familiarity with the coursework tasks could make it relatively easier for candidates to fulfil the criteria for coursework than for controlled assessment.

Broadly speaking, the evidence suggests that there are not important generic differences between internally and externally assessed units in terms of their achieved weightings, although the difference at A2 may warrant attention in relation to future specification development. Within particular specifications – again, particularly A-levels with coursework at A2 – may be another matter and it is the examination of outliers that will be more informative from a quality control perspective.

## Analyses Part 2: Question-Unit Weightings

### A-level Media Studies

#### Assessment Objectives

The assessment objectives for A-level Media Studies are as follows:

- AO1 Demonstrate knowledge and understanding of media concepts, contexts and critical debates.
- AO2 Apply knowledge and understanding when analysing media products and processes and evaluating their own practical work, to show how meanings and responses are created.
- AO3 Demonstrate the ability to plan and construct media products using appropriate technical and creative skills.
- AO4 Demonstrate the ability to undertake, apply and present appropriate research.

#### A-level Certifying Candidates

Table 1 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating A-level Media Studies in summer 2011.

**Table 1. The achieved weightings of units and their corresponding assessment objectives for candidates certificating A-level Media Studies in summer 2011 (N = 6,986).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	AO4	Ach AO1	Ach AO2	Ach AO3	Ach AO4
MEST1 AS Written	25.00	21.72	15.00	10.00	0.00	0.00	13.03	8.69	0.00	0.00
MEST2 AS Portfolio	25.00	24.36	0.00	5.00	15.00	5.00	0.00	4.87	14.62	4.87
MEST3 A2 Written	25.00	24.59	10.00	15.00	0.00	0.00	9.84	14.76	0.00	0.00
MEST4 A2 Portfolio	25.00	29.32	5.00	0.00	10.00	10.00	5.86	0.00	11.73	11.73
<b>Total</b>			<b>30.00</b>	<b>30.00</b>	<b>25.00</b>	<b>15.00</b>	<b>28.73</b>	<b>28.32</b>	<b>26.35</b>	<b>16.60</b>
<b>Difference</b>							<b>-1.27</b>	<b>-1.68</b>	<b>1.35</b>	<b>1.60</b>

The achieved weights for the units show that MEST4, the A2 portfolio unit, has exceeded its intended weighting by 4.32%, whilst MEST1, the AS written paper unit, has fallen 3.28% short of its intended weight. MEST2 (AS portfolio) and MEST3 (A2 written paper) have near-enough achieved their intended weightings. The assessment objectives AO3 and AO4 are practical in nature and are measured only by the portfolio units, whilst AO1 and AO2 constitute only 5% of the marks for MEST4 and MEST2, respectively. Consequently, the underweighting of a written unit and the overweighting of a portfolio unit means that AO3 and AO4 over-contribute and AO1 and AO2 under-contribute to the A-level outcomes.

This analysis assumes that, within each unit, the assessment objectives have achieved their intended weights. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units. An item level analysis is required to confirm or refute this. It should be noted that the majority of certificating candidates will not have taken all of their units in the certificating series. To sample such candidates would introduce two fundamental problems: first, they are few in number; second, they are

unrepresentative of how candidates enter for units. It would be unwise to draw conclusions from their data; rather, it would be better to monitor the weightings over several series. If there are stable, undesirable patterns in the data, structural changes to units or improvements to the setting and/or marking of questions may be desirable.

### **MEST1 - Investigating Media**

The aim of this unit is to enable candidates to investigate the media by applying media concepts to a range of media products in order to reach an understanding of how meanings and responses are created. Candidates should be encouraged to investigate the contemporary media landscape and the changing contexts within which media texts are produced and consumed.

Candidates will investigate the processes of meaning-making in media production and reception:

- at the micro level within individual products (also termed **texts**)
- and at a macro level in terms of technologies (also termed **platforms**).

In this specification the media platforms are referred to as broadcasting, e-media and print, to include linear broadcasting (audio-visual) and cinema, print media, digital/web-based and emerging media.

Candidates will firstly investigate a wide range of media texts to familiarise themselves with media language and media codes and conventions and then embark upon a cross-media study.

The investigations into media concepts, processes and products will link with and inform the research into Unit 2: Creating Media, where candidates are required to produce media artefacts taken from two of the three media platforms.

On MEST1, candidates must answer the four questions in section A and one of the two questions in section B. Table 2 shows the analysis for those candidates who opted for (or, where they did both optional questions, scored highest on) question B5. AO1 is associated with the section A questions, which constitute 48/80 (60%) marks on the paper. The remaining 32/80 (40%) marks in section B are associated with AO2. The analysis shows that the achieved weightings of 51.40% for AO1 and 48.60% for AO2 are closer to a 50/50 split than the intended 60/40.

Table 3 shows the analysis for those candidates who opted for (or, where they did both optional questions, scored highest on) question B6. Again, the achieved weightings of 47.82% for AO1 and 52.18% for AO2 are closer to a 50/50 split than the intended 60/40 and, in this case, AO2 has slightly outweighed AO1.

### **MEST3 - Critical Perspectives**

The aim of this synoptic unit is to allow candidates to demonstrate their holistic understanding of the Media Studies Specification. It is assumed that during the course of their study they will have covered media concepts in some detail but, generally speaking, individually. At this level they are encouraged to examine the media in a less formulaic way. MEST3 will encourage candidates to demonstrate their understanding of the concepts, and also to develop and formulate their approach to the media and the role of the media in today's society by referring in detail to the wider contexts (social, political, historical, economic, as appropriate) which affect media production, distribution and exhibition, by tackling media theory and by taking part in a discussion of the major contemporary media issues and debates. Candidates are expected to look at cross-cultural factors and the effects of globalisation on the media where appropriate.

On MEST3, candidates must answer the three questions in section A and one of the four questions in section B. Table 4 shows the analysis for those candidates who opted for (or, where they did more

than one optional question, scored highest on) question B4. AO1 is associated with the section A questions, which constitute 32/80 (40%) marks on the paper. The remaining 48/80 (60%) marks in section B are associated with AO2. The analysis shows that the achieved weightings of 30.61% for AO1 and 69.39% for AO2 are closer to a 30/70 split than the intended 40/60.

Table 5 shows the analysis for those candidates who opted for (or, where they did more than one optional question, scored highest on) question B5. Again, the achieved weightings of 29.73% for AO1 and 70.27% for AO2 are closer to a 30/70 split than the intended 40/60.

Table 6 shows the analysis for those candidates who opted for (or, where they did more than one optional question, scored highest on) question B6. Again, the achieved weightings of 31.70% for AO1 and 68.30% for AO2 are closer to a 30/70 split than the intended 40/60.

Table 7 shows the analysis for those candidates who opted for (or, where they did more than one optional question, scored highest on) question B7. Again, the achieved weightings of 31.72% for AO1 and 68.28% for AO2 are closer to a 30/70 split than the intended 40/60.

There are two things to note from these findings. First, at unit level (Table 1), the portfolio units have defied the trend for A-level coursework/practical units to achieve less than their intended weights. Second, at the question level in the written units (Tables 2-7), the longer questions – associated exclusively with AO2 – have achieved over their intended weights, whilst the shorter questions – associated exclusively with AO1 – have achieved under their intended weights.

The association of particular assessment objectives with certain question types means that the mis-weighting of assessment objectives could be addressed either through improving the discrimination provided by the shorter questions or by assigning both assessment objectives more equally to the short-answer and extended-response question types. For example, it may be useful to consider the assessment of AO1 using some longer questions and/or AO2 using some shorter questions, so that they achieve their intended weights. Clearly though, the achieved weightings of the assessment objectives are one of many possible sources of validity evidence. A better achieved weighting of assessment objectives should not be pursued at the expense of other validity concerns, such as whether a shorter or longer version of a question is still measuring appropriately the associated assessment objective.

**Table 2. The achieved weightings of questions and their corresponding assessment objectives for MEST1 (B5) in summer 2011 (N = 7,184).**

<b>MEST 1 (B5)</b>	<b>TOTAL</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>A4</b>	<b>B5</b>	<b>B6</b>	
<b>Mean</b>	39.61	6.25	5.54	5.86	5.44	16.52		
<b>SD</b>	9.93	2.16	2.22	2.06	2.18	5.77		
<b>R item:total</b>		0.55	0.61	0.59	0.62	0.84		
<b>Ach Weight</b>		11.93	13.70	12.16	13.61	48.60		
<b>Int Weight</b>		15.00	15.00	15.00	15.00	40.00		
<b>Max</b>		12.00	12.00	12.00	12.00	32.00		
								<b>Total</b>
<b>AO1 % of marks</b>		100.00	100.00	100.00	100.00	0.00		<b>60.00</b>
<b>AO2 % of marks</b>		0.00	0.00	0.00	0.00	100.00		<b>40.00</b>
<b>AO1 weight</b>		11.93	13.70	12.16	13.61	0.00	0.00	<b>51.40</b>
<b>AO2 weight</b>		0.00	0.00	0.00	0.00	48.60	0.00	<b>48.60</b>

**Table 3. The achieved weightings of questions and their corresponding assessment objectives for MEST1 (B6) in summer 2011 (N = 2,707).**

<b>MEST1 (B6)</b>	<b>TOTAL</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>A4</b>	<b>B5</b>	<b>B6</b>	
<b>Mean</b>	38.71	6.15	5.30	5.79	5.47		16.00	
<b>SD</b>	10.81	2.16	2.30	2.06	2.25		6.54	
<b>R item:total</b>		0.55	0.61	0.57	0.63		0.86	
<b>Ach Weight</b>		10.91	12.88	10.85	13.18		52.18	
<b>Int Weight</b>		15.00	15.00	15.00	15.00		40.00	
<b>Max</b>		12.00	12.00	12.00	12.00		32.00	
								<b>Total</b>
<b>AO1 % of marks</b>		100.00	100.00	100.00	100.00		0.00	<b>60.00</b>
<b>AO2 % of marks</b>		0.00	0.00	0.00	0.00		100.00	<b>40.00</b>
<b>AO1 weight</b>		10.91	12.88	10.85	13.18		0.00	<b>47.82</b>
<b>AO2 weight</b>		0.00	0.00	0.00	0.00		52.18	<b>52.18</b>

**Table 4. The achieved weightings of questions and their corresponding assessment objectives for MEST3 (B4) in summer 2011 (N = 2,098).**

MEST 3 (B4)	TOTAL	A1	A2	A3	B4	B5	B6	B7	
Mean	39.85	4.70	5.53	5.64	23.98				
SD	14.15	1.60	2.18	2.19	10.20				
R item:total		0.68	0.74	0.74	0.96				
Ach Weight		7.67	11.44	11.50	69.39				
Int Weight		10.00	15.00	15.00	60.00				
Max		8.00	12.00	12.00	48.00				
									<b>Total</b>
AO1 % of marks		100.00	100.00	100.00	0.00				<b>40.00</b>
AO2 % of marks		0.00	0.00	0.00	100.00				<b>60.00</b>
AO1 weight		7.67	11.44	11.50	0.00				<b>30.61</b>
AO2 weight		0.00	0.00	0.00	69.39				<b>69.39</b>

**Table 5. The achieved weightings of questions and their corresponding assessment objectives for MEST3 (B5) in summer 2011 (N = 1,224).**

MEST 3 (B5)	TOTAL	A1	A2	A3	B4	B5	B6	B7	
Mean	41.41	4.77	5.67	5.75		25.21			
SD	13.47	1.52	2.06	2.11		9.81			
R item:total		0.65	0.73	0.71		0.96			
Ach Weight		7.28	11.24	11.21		70.27			
Int Weight		10.00	15.00	15.00		60.00			
Max		8.00	12.00	12.00		48.00			
									<b>Total</b>
AO1 % of marks		100.00	100.00	100.00		0.00			<b>40.00</b>
AO2 % of marks		0.00	0.00	0.00		100.00			<b>60.00</b>
AO1 weight		7.28	11.24	11.21	0.00	0.00	0.00	0.00	<b>29.73</b>
AO2 weight		0.00	0.00	0.00	0.00	70.27	0.00	0.00	<b>70.27</b>

**Table 6. The achieved weightings of questions and their corresponding assessment objectives for MEST3 (B6) in summer 2011 (N = 2,142).**

<b>MEST 3 (B6)</b>	<b>TOTAL</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>B4</b>	<b>B5</b>	<b>B6</b>	<b>B7</b>	
<b>Mean</b>	41.13	4.63	5.28	5.58			25.64		
<b>SD</b>	13.36	1.58	2.11	2.14			9.50		
<b>R item:total</b>		0.65	0.75	0.76			0.96		
<b>Ach Weight</b>		7.68	11.83	12.18			68.30		
<b>Int Weight</b>		10.00	15.00	15.00			60.00		
<b>Max</b>		8.00	12.00	12.00			48.00		
									<b>Total</b>
<b>AO1 % of marks</b>		100.00	100.00	100.00			0.00		<b>40.00</b>
<b>AO2 % of marks</b>		0.00	0.00	0.00			100.00		<b>60.00</b>
<b>AO1 weight</b>		7.68	11.83	12.18	0.00	0.00	0.00	0.00	<b>31.70</b>
<b>AO2 weight</b>		0.00	0.00	0.00	0.00	0.00	68.30	0.00	<b>68.30</b>

**Table 7. The achieved weightings of questions and their corresponding assessment objectives for MEST3 (B7) in summer 2011 (N = 899).**

<b>MEST 3 (B7)</b>	<b>TOTAL</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>B4</b>	<b>B5</b>	<b>B6</b>	<b>B7</b>	
<b>Mean</b>	47.88	5.05	6.18	6.30				30.34	
<b>SD</b>	13.46	1.53	2.17	2.26				9.58	
<b>R item:total</b>		0.61	0.73	0.78				0.96	
<b>Ach Weight</b>		6.91	11.78	13.03				68.28	
<b>Int Weight</b>		10.00	15.00	15.00				60.00	
<b>Max</b>		8.00	12.00	12.00				48.00	
									<b>Total</b>
<b>AO1 % of marks</b>		100.00	100.00	100.00				0.00	<b>40.00</b>
<b>AO2 % of marks</b>		0.00	0.00	0.00				100.00	<b>60.00</b>
<b>AO1 weight</b>		6.91	11.78	13.03				0.00	<b>31.72</b>
<b>AO2 weight</b>		0.00	0.00	0.00				68.28	<b>68.28</b>

## GCSE History B (Full Course)

### Assessment Objectives

AO1 Recall, select and communicate their knowledge and understanding of history.

AO2 Demonstrate their understanding of the past through explanation and analysis of:

- key concepts: causation, consequence, continuity, change and significance within an historical context;
- key features and characteristics of the periods studied and the relationship between them.

AO3 Understand, analyse and evaluate:

- a range of source material as part of an historical enquiry;
- how aspects of the past have been interpreted and represented in different ways as part of an historical enquiry.

### Certificating Candidates

Table 8 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE History B (Full Course) in summer 2011.

**Table 8. The achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE History B (Full Course) in summer 2011 (N = 35,720).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
40451 <i>Written Paper</i>	<b>37.50</b>	<b>37.87</b>	15.00	15.00	7.50	15.15	15.15	7.57
40452 <i>Written Paper</i>	<b>37.50</b>	<b>41.36</b>	15.00	15.00	7.50	16.54	16.54	8.27
40453 <i>Controlled Assessment</i>	<b>25.00</b>	<b>20.77</b>	2.50	2.50	20.00	2.08	2.08	16.62
<b>Total</b>			<b>32.50</b>	<b>32.50</b>	<b>35.00</b>	<b>33.77</b>	<b>33.77</b>	<b>32.46</b>
<b>Difference</b>						<b>1.27</b>	<b>1.27</b>	<b>-2.54</b>

The achieved weights for the units show that the written paper, 40451, has achieved a weighting very close to that intended (+0.37%), whilst the other written paper, 40452, has exceeded its intended weight by 3.86%. The controlled assessment unit, 40453, has fallen short of its intended weight by 4.23%. Although all of the three assessment objectives are measured across the three units, AO1 and AO2 are assessed predominantly in the written papers, whilst AO3 is assessed predominantly in the controlled assessment unit. Consequently, AO3 is underweighted when compared with AO1 and AO2.

This analysis assumes that, within each unit, the assessment objectives have achieved their intended weights. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units. An item level analysis is required to confirm or refute this. It should be noted that the majority of certificating candidates will not have taken all of their units in the certificating series. To sample such candidates would introduce two fundamental problems: first, they are few in number; second, they are unrepresentative of how candidates enter for units. It would be unwise to draw conclusions from their data; rather, it would be better to monitor the weightings over several series. If there are stable,

undesirable patterns in the data, structural changes to units or improvements to the setting and/or marking of questions may be desirable.

**40451 - International Relations: Conflict and Peace in the 20th Century**

This unit provides an outline study of history. The content is on international relations and covers many of the main events of the 20th Century.

On 40451, candidates must answer three questions on three of six optional topics. Table 9 shows the analysis for those candidates who opted for (or, where they attempted more than three questions, scored highest on) questions 1, 2, and 3 (the most popular combination).

AO1, AO2, and AO3 achieve respective weightings of 48.81%, 41.96%, and 9.23%, compared with their intended weightings of 40:40:20. However, the achieved weightings are not purely the product of the performance of the question paper. Clearly, this question paper has been written with greater emphasis on AO1 and AO2 and less emphasis on AO3 than stated in the specification: the *effective* intended weightings are 45:45:10 (Table 9). Considering that AO3 appeared underweighted when it was assumed that it had achieved its intended weight within each unit, the finding that AO3 is significantly underweighted within 40451 must be a concern.

Table 10 shows the analysis for those candidates who opted for (or, where they attempted more than three questions, scored highest on) questions 4, 5, and 6 (the third most popular combination). AO1, AO2, and AO3 achieve respective weightings of 45.87%, 44.24%, and 9.89%. These weightings are very close to the effective intended weightings of 45:45:10 – so the question paper has performed well – but obviously are not in line with the published intended weightings of 40:40:20.

**Table 9. The achieved weightings of questions and their corresponding assessment objectives for 40451 (1,2,3) in summer 2011 (N = 12,876).**

40451 (1,2,3)	TOTAL	1.1	1.2	1.3	2.4	2.5	2.6	3.7	3.8	3.9	
Mean	33.41	2.76	3.67	5.38	2.70	3.96	5.08	2.45	2.94	4.47	
SD	11.72	1.55	1.52	2.10	1.37	1.43	2.26	1.40	1.50	2.20	
R item:total		0.71	0.74	0.82	0.69	0.70	0.85	0.67	0.74	0.84	
Ach Weight		9.39	9.63	14.60	8.10	8.55	16.49	8.05	9.52	15.66	
Int Weight		6.67	10.00	16.67	6.67	10.00	16.67	6.67	10.00	16.67	
Max	60.00	4.00	6.00	10.00	4.00	6.00	10.00	4.00	6.00	10.00	
											<b>Total</b>
AO1 % of marks		100.00	33.33	30.00	100.00	33.33	30.00	100.00	33.33	30.00	<b>45.00</b>
AO2 % of marks		0.00	33.33	70.00	0.00	33.33	70.00	0.00	33.33	70.00	<b>45.00</b>
AO3 % of marks		0.00	33.33	0.00	0.00	33.33	0.00	0.00	33.33	0.00	<b>10.00</b>
AO1 weight		9.39	3.21	4.38	8.10	2.85	4.95	8.05	3.17	4.70	<b>48.81</b>
AO2 weight		0.00	3.21	10.22	0.00	2.85	11.55	0.00	3.17	10.96	<b>41.96</b>
AO3 weight		0.00	3.21	0.00	0.00	2.85	0.00	0.00	3.17	0.00	<b>9.23</b>

**Table 10. The achieved weightings of questions and their corresponding assessment objectives for 40451 (4,5,6) in summer 2011 (N = 3,812).**

<b>40451 (4,5,6)</b>	<b>TOTAL</b>	<b>4.10</b>	<b>4.11</b>	<b>4.12</b>	<b>5.13</b>	<b>5.14</b>	<b>5.15</b>	<b>6.16</b>	<b>6.17</b>	<b>6.18</b>	
<b>Mean</b>	37.28	3.56	3.96	5.74	3.22	3.66	6.04	3.15	3.06	4.90	
<b>SD</b>	10.59	0.89	1.39	2.05	1.18	1.43	2.04	1.28	1.55	2.26	
<b>R item:total</b>		0.57	0.74	0.82	0.72	0.70	0.79	0.71	0.72	0.83	
<b>Ach Weight</b>		4.76	9.69	15.98	7.94	9.45	15.29	8.56	10.52	17.81	
<b>Int Weight</b>		6.67	10.00	16.67	6.67	10.00	16.67	6.67	10.00	16.67	
<b>Max</b>	60.00	4.00	6.00	10.00	4.00	6.00	10.00	4.00	6.00	10.00	
											<b>Total</b>
<b>AO1 % of marks</b>		100.00	33.33	30.00	100.00	33.33	30.00	100.00	33.33	30.00	<b>45.00</b>
<b>AO2 % of marks</b>		0.00	33.33	70.00	0.00	33.33	70.00	0.00	33.33	70.00	<b>45.00</b>
<b>AO3 % of marks</b>		0.00	33.33	0.00	0.00	33.33	0.00	0.00	33.33	0.00	<b>10.00</b>
<b>AO1 weight</b>		4.76	3.23	4.79	7.94	3.15	4.59	8.56	3.51	5.34	<b>45.87</b>
<b>AO2 weight</b>		0.00	3.23	11.18	0.00	3.15	10.70	0.00	3.51	12.47	<b>44.24</b>
<b>AO3 weight</b>		0.00	3.23	0.00	0.00	3.15	0.00	0.00	3.51	0.00	<b>9.89</b>

**40452 - Twentieth Century Depth Studies**

This unit requires the study of contrasting or complementary governments throughout the Twentieth Century. It gives a national or regional focus to studies in depth, based on events, developments and issues in specified countries or regions.

On 40452, candidates must answer three questions: one of three questions from Section A and two of seven questions from Section B. Table 11 shows the analysis for those candidates who opted for (or, where they attempted more than three questions, scored highest on) questions A3, B5, and B6 (the most popular combination, with four times as many candidates as the next most popular route).

**Table 11. The achieved weightings of questions and their corresponding assessment objectives for 40452 (3,5,6) in summer 2011 (N = 10,005).**

<b>40452 (3,5,6)</b>	<b>TOTAL</b>	<b>A 3.7</b>	<b>A 3.8</b>	<b>A 3.9</b>	<b>B 5.12</b>	<b>B 5.13</b>	<b>B 6.14</b>	<b>B 6.15</b>	
<b>Mean</b>	31.15	3.09	3.51	5.49	4.42	5.42	3.97	5.25	
<b>SD</b>	11.17	0.86	1.53	2.19	1.85	2.77	2.26	2.72	
<b>R item:total</b>		0.37	0.70	0.76	0.81	0.86	0.84	0.87	
<b>Ach Weight</b>		2.83	9.59	14.88	13.36	21.28	17.03	21.03	
<b>Int Weight</b>		6.67	10.00	16.67	13.33	20.00	13.33	20.00	
<b>Max</b>	60.00	4.00	6.00	10.00	8.00	12.00	8.00	12.00	
									<b>Total</b>
<b>AO1 % of marks</b>		0.00	33.33	20.00	62.50	50.00	62.50	50.00	<b>43.33</b>
<b>AO2 % of marks</b>		0.00	66.67	20.00	12.50	50.00	12.50	50.00	<b>33.33</b>
<b>AO3 % of marks</b>		100.00	0.00	60.00	25.00	0.00	25.00	0.00	<b>23.33</b>
<b>AO1 weight</b>		0.00	3.20	2.98	8.35	10.64	10.64	10.51	<b>46.32</b>
<b>AO2 weight</b>		0.00	6.39	2.98	1.67	10.64	2.13	10.51	<b>34.32</b>
<b>AO3 weight</b>		2.83	0.00	8.93	3.34	0.00	4.26	0.00	<b>19.36</b>

As with the previous unit, the effective weightings of the assessment objectives are not in line with those published in the specification. AO1, AO2, and AO3 have respective effective intended weightings of 43.33%, 33.33%, and 23.33% compared with published intended weightings of 40:40:20. AO1 and AO2 have achieved slightly above their effective intended weights, whilst AO3 has achieved slightly under its intended weight. Both questions in section A that assess AO3 are underweighted, including the four mark question, which assesses purely AO3.

### Reassessing Certifying Candidates

Table 12 shows the achieved weightings of units and their corresponding assessment objectives for candidates certifying GCSE History B (Full Course) in summer 2011, adjusted to reflect the effective intended weightings on 40451 and 40452. Based on these effective intended AO weightings and achieved unit weights, the overall assessment overweights AO1 by approximately 5% and underweights AO3 by approximately the same. When we consider the question level analysis and the fact that, at that level too, AO1 tends to be overweighted and AO3 underweighted, these 5% estimates are probably somewhat conservative.

**Table 12. The achieved weightings of units and their corresponding assessment objectives for candidates certifying GCSE History B (Full Course) in summer 2011 (N = 35,720) – adjusted to reflect the effective intended weightings on 40451 and 40452.**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
40451	37.50	37.87	16.88	16.88	3.75	17.04	17.04	3.79
40452	37.50	41.36	16.25	12.50	8.75	17.92	13.78	9.65
40453	25.00	20.77	2.50	2.50	20.00	2.08	2.08	16.62
<b>Total</b>			<b>35.62</b>	<b>31.87</b>	<b>32.50</b>	<b>37.04</b>	<b>32.90</b>	<b>30.05</b>
<b>Difference Achieved - Effective</b>						<b>1.42</b>	<b>1.03</b>	<b>-2.45</b>
<b>Difference Achieved - Published</b>						<b>4.54</b>	<b>0.40</b>	<b>-4.95</b>

In the case of the A-level Media Studies papers, the longer extended response questions all exceeded their intended weights while the shorter-response questions tended to be underweighted. In the case of the current papers no such pattern is obvious: some of the questions with the lowest tariff – four marks – exceed their intended weightings while others fail to reach them.

Although the achieved weightings could be monitored over time, the most pertinent issue is the translation of intended weightings, as published in the specification, into effective intended weightings in the question papers. Reassuringly, the effective intended weightings, at specification level (Table 12), fall within, or adjacent to, the ranges permitted in the Ofqual criteria for GCSE History – AO1 (25 – 35%), AO2 (25 – 35%), AO3 (30 – 40%) – and the issue of rebalancing them was being addressed at the time of writing.

## GCSE Business Studies

### Assessment Objectives

The assessment units will assess the following assessment objectives:

- AO1 Recall, select and communicate their knowledge and understanding of concepts, issues and terminology.
- AO2 Apply skills, knowledge and understanding in a variety of contexts and in planning and carrying out investigations and tasks.
- AO3 Analyse and evaluate evidence, make reasoned judgements and present appropriate conclusions.

### Quality of Written Communication (QWC)

GCSE specifications which require candidates to produce written material in English must:

- ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear
- select and use a form and style of writing appropriate to purpose and to complex subject matter
- organise information clearly and coherently, using specialist vocabulary when appropriate.

In this specification QWC will be assessed in all units as part of AO3 (indicated in the tables as question 1/2/3dE).

### Certificating Candidates

Table 13 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Business Studies in summer 2011.

**Table 13. The achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Business Studies in summer 2011 (N = 20,754).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
413001 <i>Written Paper</i>	<b>40.00</b>	<b>37.47</b>	12.00	14.00	14.00	11.24	13.12	13.12
413002 <i>Written Paper</i>	<b>35.00</b>	<b>38.02</b>	10.50	12.25	12.25	11.41	13.31	13.31
413003 <i>Controlled Assessment</i>	<b>25.00</b>	<b>24.50</b>	7.50	8.75	8.75	7.35	8.58	8.58
<b>Total</b>			<b>30.00</b>	<b>35.00</b>	<b>35.00</b>	<b>30.00</b>	<b>35.00</b>	<b>35.00</b>
<b>Difference</b>						<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Overall, the achieved weights of the units are in line with their intended weights. Owing to the fact that the assessment objectives within each unit are weighted quite similarly, deviation from the intended weightings at unit level cannot dramatically upset the balance of assessment objective weightings at subject level.

This analysis assumes that, within each unit, the assessment objectives have achieved their intended weights. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units. An item level analysis is required to confirm or refute this. It should be noted that the majority of certificating candidates will not have taken all of their units in the certificating series. To sample such candidates would introduce two fundamental problems: first, they are few in number; second, they are unrepresentative of how candidates enter for units. It would be unwise to draw conclusions from their data; rather, it would be better to monitor the weightings over several series. If there are stable, undesirable patterns in the data, structural changes to units or improvements to the setting and/or marking of questions may be desirable.

#### **413001 - Setting up a Business**

This unit introduces candidates to issues concerning the setting up and operation of a business. It explores the activities of business and the reasons for success or failure. It encourages candidates to appreciate that businesses must operate within society and that this involves businesses engaging with a wide range of stakeholders who will hold differing perspectives.

Table 14 shows the intended and achieved weights for the questions and their corresponding assessment objectives for 413001. Candidates must answer all questions on this paper. AO1, AO2, and AO3 achieve respective weightings of 36.00%, 38.16%, and 25.84%, compared with their intended weightings of 30:35:35. Closer examination of Table 14 shows that the mean marks awarded for QWC (questions 1/2/3dE), which is assessed as a part of AO3, are low and that the achieved weightings for these part-questions are in the range of  $\frac{1}{2}$  to  $\frac{2}{3}$  of those intended. By contrast, the achieved weightings for those part-questions (1/2/3d) based on the marks awarded for AO1, AO2, and non-QWC AO3 are much closer to, or exceed, the intended weightings. So, whilst AO3 on the whole is quite seriously underweighted, it appears that it is the QWC component, more than the analytical and evaluative skills component, which is problematic. The marks allocated to QWC are not discriminating between candidates. It may be that the candidature is genuinely homogenous and that the measure would work appropriately on a more heterogeneous candidature. This could be regarded as a success, as it might indicate that the inclusion of QWC in the assessment has made the majority of candidates take care over the quality of their writing without the assessment actually discriminating between them on the basis of it. Alternatively, it could be that the mark scheme is not enabling markers to award a large enough range of marks to facilitate discrimination between candidates, or that QWC is genuinely too weakly correlated with performance on the subject content to ever achieve its intended weight, no matter how examiners intervene.

#### **413002 - Growing as a Business**

This unit builds upon the content of Unit 1, allowing candidates to study businesses as they grow and the issues that expansion raises.

Table 15 shows the intended and achieved weights for the questions and their corresponding assessment objectives for 413002. Candidates must answer all questions on this paper. AO1, AO2, and AO3 achieve respective weightings of 33.36%, 34.91%, and 31.73%, compared with their intended weightings of 30:35:35. Although AO3 is still underweighted, the problem is not nearly as large as for unit 413001. If the achieved weightings for the QWC part-questions work on this paper, and the candidates are predominantly the same candidates who took unit 413001, it seems reasonable to suggest that the mark scheme for the first unit might be the issue rather than the candidature.

**Table 14. The achieved weightings of questions and their corresponding assessment objectives for 413001 in summer 2011 (N = 21,467).**

<b>413001</b>	<b>TOTAL</b>	<b>1a</b>	<b>1b</b>	<b>1c</b>	<b>1d</b>	<b>1dE</b>	<b>2a</b>	<b>2b</b>	<b>2c</b>	<b>2d</b>	<b>2dE</b>	<b>3a</b>	<b>3b</b>	<b>3c</b>	<b>3d</b>	<b>3dE</b>	
<b>Mean</b>	35.33	1.57	2.71	3.95	2.91	2.38	1.39	1.91	2.77	2.78	2.08	1.23	3.08	2.58	2.29	1.70	
<b>SD</b>	7.08	0.60	1.14	1.34	0.79	0.86	0.82	0.87	1.12	0.81	0.83	0.72	1.54	1.13	0.96	0.87	
<b>R item:total</b>		0.40	0.53	0.54	0.49	0.43	0.51	0.46	0.50	0.51	0.45	0.21	0.56	0.55	0.55	0.48	
<b>Ach Weight</b>		3.38	8.49	10.12	5.42	5.26	5.93	5.70	8.01	5.83	5.25	2.17	12.08	8.87	7.55	5.93	
<b>Int Weight</b>		3.33	6.67	10.00	6.67	8.33	3.33	5.00	6.67	6.67	8.33	3.33	10.00	6.67	6.67	8.33	
<b>Max</b>	56.00	2.00	4.00	6.00	4.00	5.00	2.00	3.00	4.00	4.00	5.00	2.00	6.00	4.00	4.00	5.00	
																	<b>Total</b>
<b>AO1 % of marks</b>		100.00	50.00	33.33	25.00	0.00	100.00	33.33	50.00	25.00	0.00	0.00	33.33	50.00	25.00	0.00	<b>30.0</b>
<b>AO2 % of marks</b>		0.00	50.00	66.67	25.00	0.00	0.00	66.67	50.00	25.00	0.00	100.00	66.67	50.00	25.00	0.00	<b>35.0</b>
<b>AO3 % of marks</b>		0.00	0.00	0.00	50.00	100.00	0.00	0.00	0.00	50.00	100.00	0.00	0.00	0.00	50.00	100.00	<b>35.0</b>
<b>AO1 weight</b>		3.38	4.25	3.37	1.36	0.00	5.93	1.90	4.01	1.46	0.00	0.00	4.03	4.44	1.89	0.00	<b>36.00</b>
<b>AO2 weight</b>		0.00	4.25	6.74	1.36	0.00	0.00	3.80	4.01	1.46	0.00	2.17	8.05	4.44	1.89	0.00	<b>38.16</b>
<b>AO3 weight</b>		0.00	0.00	0.00	2.71	5.26	0.00	0.00	0.00	2.92	5.25	0.00	0.00	0.00	3.77	5.93	<b>25.84</b>

**Table 15. The achieved weightings of questions and their corresponding assessment objectives for 413002 in summer 2011 (N = 19,528).**

413002	TOTAL	1a	1b	1c	1d	1dE	2a	2b	2ci	2cii	2d	2dE	3a	3bi	3bii	3c	3cE	
<b>Mean</b>	36.35	1.16	2.40	3.67	2.46	2.70	2.81	2.48	1.71	2.07	2.44	2.61	1.37	1.84	1.28	2.57	2.80	
<b>SD</b>	7.07	0.88	0.85	1.18	0.90	0.94	1.10	1.23	0.51	1.18	0.83	0.93	0.74	0.48	0.73	0.89	0.97	
<b>R item:total</b>		0.50	0.44	0.56	0.52	0.53	0.40	0.52	0.31	0.52	0.53	0.55	0.42	0.35	0.44	0.53	0.55	
<b>Ach Weight</b>		6.18	5.35	9.35	6.58	7.08	6.23	9.11	2.23	8.76	6.23	7.27	4.40	2.34	4.53	6.75	7.60	
<b>Int Weight</b>		3.33	6.67	10.00	6.67	8.33	6.67	6.67	3.33	6.67	6.67	8.33	3.33	3.33	5.00	6.67	8.33	
<b>Max</b>	57.00	2.00	4.00	6.00	4.00	5.00	4.00	4.00	2.00	4.00	4.00	5.00	2.00	2.00	3.00	4.00	5.00	
																		<b>Total</b>
<b>AO1 % of marks</b>		100.00	50.00	33.33	25.00	0.00	50.00	50.00	100.00	25.00	25.00	0.00	100.00	0.00	0.00	25.00	0.00	<b>30.00</b>
<b>AO2 % of marks</b>		0.00	50.00	66.67	25.00	0.00	50.00	50.00	0.00	75.00	25.00	0.00	0.00	100.00	100.00	25.00	0.00	<b>35.00</b>
<b>AO3 % of marks</b>		0.00	0.00	0.00	50.00	100.00	0.00	0.00	0.00	0.00	50.00	100.00	0.00	0.00	0.00	50.00	100.00	<b>35.00</b>
<b>AO1 weight</b>		6.18	2.67	3.12	1.65	0.00	3.12	4.55	2.23	2.19	1.56	0.00	4.40	0.00	0.00	1.69	0.00	<b>33.36</b>
<b>AO2 weight</b>		0.00	2.67	6.24	1.65	0.00	3.12	4.55	0.00	6.57	1.56	0.00	0.00	2.34	4.53	1.69	0.00	<b>34.91</b>
<b>AO3 weight</b>		0.00	0.00	0.00	3.29	7.08	0.00	0.00	0.00	0.00	3.11	7.27	0.00	0.00	0.00	3.37	7.60	<b>31.73</b>

## A-level French

### Assessment Objectives

The assessment objectives for A-level French are as follows:

**AO1** Understand and respond, in speech and writing, to spoken language.

**AO2** Understand and respond, in speech and writing, to written language.

**AO3** Show knowledge of and apply accurately the grammar and syntax prescribed in the specification.

### Quality of Written Communication (QWC)

In GCE specifications which require candidates to produce written material in English, candidates must:

- ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear
- select and use a form and style of writing appropriate to purpose and to complex subject matter
- organise information clearly and coherently, using specialist vocabulary when appropriate.

In this specification QWC will be assessed in Units 1 and 3 by means of the transfer of meaning tasks.

### A-level Certifying Candidates

Table 16 shows the achieved weightings of units and their corresponding assessment objectives for candidates certifying A-level French in summer 2011.

**Table 16. The achieved weightings of units and their corresponding assessment objectives for candidates certifying A-level French in summer 2011 (N = 3,627).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
FREN1 <i>AS Written Paper</i>	35.00	36.75	11.00	16.00	8.00	11.55	16.80	8.40
FRE2T <i>AS Speaking Test</i>	15.00	9.49	7.00	3.00	5.00	4.43	1.90	3.16
FREN3 <i>A2 Written Paper</i>	35.00	39.11	8.00	19.00	8.00	8.94	21.23	8.94
FRE4T <i>A2 Speaking Test</i>	15.00	14.66	7.00	4.00	4.00	6.84	3.91	3.91
<b>Total</b>			<b>33.00</b>	<b>42.00</b>	<b>25.00</b>	<b>31.76</b>	<b>43.84</b>	<b>24.41</b>
<b>Difference</b>						<b>-1.24</b>	<b>1.84</b>	<b>-0.59</b>

The AS written paper, FREN1, has achieved a weighting broadly inline with that intended (+1.75%), whilst its A2 counterpart, FREN3, has an achieved weight +4.11% over that intended. The AS speaking test, FRE2T, has achieved a weighting -5.51% below that intended, whilst the A2 speaking test, FRE4T, achieved a weight close to that intended (-0.34%). The overall effect is that the A2 assessment is slightly overweighted compared with the AS – this is to be expected when the less challenging AS units are considered in the context of certifying A-level candidates – and that AO2,

response to written language, is slightly overweighted compared with AO1 and, to a lesser extent, AO3.

This analysis assumes that, within each unit, the assessment objectives have achieved their intended weightings. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units. An item level analysis is required to confirm or refute this. It should be noted that the majority of certificating candidates will not have taken all of their units in the certificating series. To sample such candidates would introduce two fundamental problems: first, they are few in number; second, they are unrepresentative of how candidates enter for units. It would be unwise to draw conclusions from their data; rather, it would be better to monitor the weightings over several series. If there are stable, undesirable patterns in the data, structural changes to units or improvements to the setting and/or marking of questions may be desirable.

### **FREN1 - Listening, Reading and Writing**

Table 17 shows the intended and achieved weightings for the questions and their corresponding assessment objectives for FREN1. Candidates must answer all questions on this paper. The results show that AO1 – understanding and responding to spoken language – is somewhat underweighted (-4.49%), whilst AO3 – knowledge and application of grammar and syntax – is overweighted (+4.71%). AO2 – understanding and responding to written language – achieved a weighting broadly in line with that intended (-0.22%).

### **FREN3 - Listening, Reading and Writing**

On FREN3, candidates must answer all of the questions in section A and one of the five questions in section B. The analyses presented are for the two most popular routes. Table 18 shows the analysis for those candidates who opted for (or, where they did multiple optional questions, scored highest on) question B12. As with the AS unit, FREN1, AO1 on FREN3 is underweighted, except that, in this case, it is more dramatic at -9.05%. Both AO2 and AO3 achieved weights greater than intended, at +3.04% and +6.01%, respectively. Clearly, the questions that require candidates to respond to spoken language do not discriminate between them as well as those requiring responses to written language or those requiring syntactically and grammatically accurate production of written language. There is a considerable number of these questions with extremely high facility indices (mean/max) – many greater than 0.95 – which are simply too easy.

Table 19 shows the analysis for those candidates who opted for (or, where they did multiple optional questions, scored highest on) question B14. The achieved weightings of the assessment objectives are very similar to those for candidates who opted for question B12, so there is no issue in terms of the comparability of the weightings of assessment objectives.

**Table 17. The achieved weightings of questions and their corresponding assessment objectives for FREN1 in summer 2011 (N = 11,103).**

<b>FREN1</b>	<b>TOTAL</b>	<b>A1a</b>	<b>A1b</b>	<b>A1c</b>	<b>A2a</b>	<b>A2b</b>	<b>A2c</b>	<b>A2d</b>	<b>A2e</b>	<b>A2f</b>	<b>A2g</b>	<b>A2h</b>	<b>A2i</b>
<b>Mean</b>	78.35	2.33	2.67	3.15	0.82	0.96	0.96	0.94	0.97	0.97	0.80	0.96	0.96
<b>SD</b>	15.60	0.79	0.60	0.98	0.38	0.20	0.20	0.23	0.16	0.17	0.40	0.20	0.19
<b>R item:total</b>		0.48	0.32	0.58	0.37	0.31	0.28	0.29	0.26	0.23	0.30	0.19	0.29
<b>Ach Weight</b>		2.44	1.24	3.65	0.92	0.39	0.37	0.43	0.26	0.25	0.78	0.25	0.35
<b>Int Weight</b>		2.73	2.73	3.64	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	110.00	3.00	3.00	4.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO2 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>		2.44	1.24	3.65	0.92	0.39	0.37	0.43	0.26	0.25	0.78	0.25	0.35
<b>AO2 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN1 (cont.)</b>	<b>A2j</b>	<b>A3a</b>	<b>A3bi</b>	<b>A3bii</b>	<b>A3c</b>	<b>A3d</b>	<b>A4a</b>	<b>A4b</b>	<b>A4c</b>	<b>A4d</b>	<b>A4e</b>	<b>A4f</b>	<b>A4g</b>
<b>Mean</b>	0.88	0.48	0.63	1.70	1.49	1.15	0.92	0.90	0.93	0.89	0.51	0.96	0.89
<b>SD</b>	0.33	0.50	0.48	0.56	0.67	0.75	0.28	0.30	0.26	0.31	0.50	0.21	0.32
<b>R item:total</b>	0.41	0.45	0.48	0.48	0.58	0.58	0.44	0.37	0.34	0.41	0.37	0.31	0.35
<b>Ach Weight</b>	0.87	1.45	1.48	1.75	2.50	2.76	0.78	0.72	0.57	0.81	1.19	0.41	0.71
<b>Int Weight</b>	0.91	0.91	0.91	1.82	1.82	1.82	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO2 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>	0.87	1.45	1.48	1.75	2.50	2.76	0.78	0.72	0.57	0.81	1.19	0.41	0.71
<b>AO2 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN1 (cont.)</b>	<b>A5a</b>	<b>A5b</b>	<b>A5c</b>	<b>A5d</b>	<b>A5e</b>	<b>A5f</b>	<b>A5g</b>	<b>A5h</b>	<b>A6a</b>	<b>A6b</b>	<b>A6c</b>	<b>A6d</b>	<b>A6e</b>	<b>A6f</b>
<b>Mean</b>	0.87	0.57	0.89	0.96	0.78	0.97	0.88	0.97	0.85	0.95	0.79	0.34	0.64	0.65
<b>SD</b>	0.34	0.49	0.31	0.19	0.41	0.18	0.32	0.18	0.36	0.23	0.41	0.47	0.48	0.48
<b>R item:total</b>	0.26	0.45	0.38	0.22	0.37	0.15	0.34	0.26	0.44	0.28	0.45	0.24	0.20	0.48
<b>Ach Weight</b>	0.56	1.43	0.75	0.27	0.98	0.17	0.70	0.30	1.02	0.41	1.17	0.73	0.61	1.46
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>AO2 weight</b>	0.56	1.43	0.75	0.27	1.0	0.2	0.7	0.3	1.0	0.5	1.2	0.7	0.6	1.4
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<b>FREN1 (cont.)</b>	<b>A7a</b>	<b>A7b</b>	<b>A7c</b>	<b>A7d</b>	<b>A7e</b>	<b>A7f</b>	<b>A7g</b>	<b>A7h</b>	<b>A8a</b>	<b>A8b</b>	<b>A8c</b>	<b>A8d</b>	<b>A8e</b>	<b>A9a</b>
<b>Mean</b>	0.96	0.92	0.97	0.68	0.54	0.72	0.78	0.89	1.74	1.72	0.83	1.63	0.73	0.79
<b>SD</b>	0.20	0.26	0.18	0.46	0.50	0.45	0.42	0.32	0.55	0.51	0.38	0.69	0.44	0.41
<b>R item:total</b>	0.23	0.37	0.31	0.39	0.33	0.55	0.28	0.41	0.26	0.21	0.41	0.47	0.28	0.51
<b>Ach Weight</b>	0.29	0.63	0.36	1.16	1.06	1.57	0.75	0.82	0.93	0.67	1.00	2.08	0.79	1.34
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	1.82	1.82	0.91	1.82	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	2.00	1.00	1.00
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 weight</b>	0.29	0.63	0.36	1.16	1.06	1.57	0.75	0.82	0.93	0.67	1.00	2.08	0.79	0.00
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34

<b>FREN1 (cont.)</b>	<b>A9b</b>	<b>A9c</b>	<b>A9d</b>	<b>A9e</b>	<b>A9f</b>	<b>A9g</b>	<b>A9h</b>	<b>A9i</b>	<b>A9j</b>	<b>BC</b>	<b>BRV</b>	<b>BRS</b>	<b>BA</b>	
<b>Mean</b>	0.92	0.63	0.46	0.71	0.79	0.20	0.24	0.77	0.41	10.52	3.12	2.99	2.77	
<b>SD</b>	0.27	0.48	0.50	0.45	0.41	0.40	0.43	0.42	0.49	4.18	1.01	1.03	1.01	
<b>R item:total</b>	0.33	0.44	0.53	0.40	0.36	0.36	0.41	0.38	0.45	0.84	0.82	0.83	0.81	
<b>Ach Weight</b>	0.56	1.37	1.70	1.15	0.94	0.92	1.11	1.02	1.42	22.56	5.27	5.43	5.21	
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	18.18	4.55	4.55	4.55	
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	20.00	5.00	5.00	5.00	
														<b>Total</b>
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>31.82</b>
<b>AO2 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	<b>45.45</b>
<b>AO3 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	<b>22.73</b>
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>27.33</b>
<b>AO2 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	0.00	0.00	0.00	<b>45.24</b>
<b>AO3 weight</b>	0.56	1.37	1.70	1.15	0.94	0.92	1.11	1.02	1.42	0.00	5.27	5.43	5.21	<b>27.43</b>

**Table 18. The achieved weightings of questions and their corresponding assessment objectives for FREN1 (B12) in summer 2011 (N = 1,939).**

<b>FREN3 (B12)</b>	<b>TOTAL</b>	<b>A1a</b>	<b>A1b</b>	<b>A1c</b>	<b>A1d</b>	<b>A1e</b>	<b>A1f</b>	<b>A2</b>	<b>A3a</b>	<b>A3b</b>	<b>A3c</b>	<b>A3d</b>
<b>Mean</b>	73.97	0.80	0.79	0.96	0.95	0.98	0.96	5.05	0.97	0.87	0.32	0.91
<b>SD</b>	14.47	0.40	0.41	0.21	0.21	0.14	0.19	0.89	0.17	0.34	0.47	0.29
<b>R item:total</b>		0.31	0.33	0.19	0.24	0.17	0.24	0.54	0.22	0.22	0.23	0.25
<b>Ach Weight</b>		0.87	0.94	0.27	0.35	0.17	0.31	3.34	0.26	0.52	0.75	0.50
<b>Int Weight</b>		0.91	0.91	0.91	0.91	0.91	0.91	5.45	0.91	0.91	0.91	0.91
<b>Max</b>	108.00	1.00	1.00	1.00	1.00	1.00	1.00	6.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO2 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>		0.87	0.94	0.27	0.35	0.17	0.31	3.34	0.26	0.52	0.75	0.50
<b>AO2 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN3 (B12) (cont.)</b>	<b>A3e</b>	<b>A3f</b>	<b>A3g</b>	<b>A4a</b>	<b>A4b</b>	<b>A4c</b>	<b>A4d</b>	<b>A4e</b>	<b>A4f</b>	<b>A5a</b>	<b>A5b</b>	<b>A5c</b>
<b>Mean</b>	0.94	0.94	0.89	0.99	0.97	0.81	0.33	0.83	0.95	0.87	0.98	0.95
<b>SD</b>	0.24	0.24	0.31	0.10	0.17	0.40	0.47	0.37	0.22	0.34	0.15	0.21
<b>R item:total</b>	0.25	0.25	0.32	0.16	0.18	0.29	0.35	0.46	0.30	0.24	0.20	0.23
<b>Ach Weight</b>	0.42	0.42	0.67	0.11	0.20	0.80	1.14	1.19	0.44	0.58	0.21	0.34
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>	0.42	0.42	0.67	0.11	0.20	0.80	1.14	1.19	0.44	0.00	0.00	0.00
<b>AO2 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.21	0.34
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN3 (B12) (cont.)</b>	<b>A5d</b>	<b>A5e</b>	<b>A5f</b>	<b>A5g</b>	<b>A6a</b>	<b>A6b</b>	<b>A6c</b>	<b>A6d</b>	<b>A6e</b>	<b>A6f</b>	<b>A6g</b>	<b>A6h</b>
<b>Mean</b>	0.98	0.97	0.90	0.96	0.71	0.93	0.91	0.95	0.83	0.81	0.69	0.86
<b>SD</b>	0.12	0.16	0.30	0.19	0.45	0.25	0.29	0.22	0.38	0.39	0.46	0.35
<b>R item:total</b>	0.17	0.20	0.10	0.23	0.15	0.23	0.27	0.21	0.29	0.34	0.35	0.25
<b>Ach Weight</b>	0.14	0.22	0.20	0.29	0.47	0.39	0.53	0.32	0.76	0.92	1.13	0.60
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 weight</b>	0.14	0.22	0.20	0.29	0.47	0.39	0.53	0.32	0.76	0.92	1.13	0.60
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN3 (B12) (cont.)</b>	<b>A6i</b>	<b>A6j</b>	<b>A6k</b>	<b>A7a</b>	<b>A7b</b>	<b>A7c</b>	<b>A8</b>	<b>A9</b>	<b>B12C</b>	<b>B12RV</b>	<b>B12CL</b>	<b>B12A</b>	
<b>Mean</b>	0.88	0.66	0.91	2.19	0.76	2.18	5.84	5.00	12.56	2.92	2.85	2.73	
<b>SD</b>	0.32	0.47	0.29	0.89	0.43	0.83	2.09	2.10	5.18	1.03	1.03	1.00	
<b>R item:total</b>	0.29	0.36	0.21	0.52	0.40	0.52	0.73	0.76	0.85	0.84	0.84	0.84	
<b>Ach Weight</b>	0.64	1.17	0.42	3.19	1.17	2.97	10.54	10.97	30.35	5.98	6.00	5.79	
<b>Int Weight</b>	0.91	0.91	0.91	2.73	0.91	2.73	9.09	9.09	22.73	4.55	4.55	4.55	
<b>Max</b>	1.00	1.00	1.00	3.00	1.00	3.00	10.00	10.00	25.00	5.00	5.00	5.00	
													<b>Total</b>
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>22.73</b>
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	0.00	0.00	0.00	<b>54.55</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	100.00	<b>22.73</b>
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>13.68</b>
<b>AO2 weight</b>	0.64	1.17	0.42	3.19	1.17	2.97	10.54	0.00	30.35	0.00	0.00	0.00	<b>57.58</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.97	0.00	5.98	6.00	5.79	<b>28.74</b>

**Table 19. The achieved weightings of questions and their corresponding assessment objectives for FREN1 (B14) in summer 2011 (N = 2,116).**

<b>FREN3 (B14)</b>	<b>TOTAL</b>	<b>A1a</b>	<b>A1b</b>	<b>A1c</b>	<b>A1d</b>	<b>A1e</b>	<b>A1f</b>	<b>A2</b>	<b>A3a</b>	<b>A3b</b>	<b>A3c</b>	<b>A3d</b>
<b>Mean</b>	75.00	0.79	0.78	0.94	0.94	0.97	0.97	5.00	0.97	0.85	0.32	0.91
<b>SD</b>	14.77	0.41	0.41	0.24	0.23	0.17	0.17	0.88	0.18	0.36	0.47	0.29
<b>R item:total</b>		0.33	0.33	0.21	0.26	0.22	0.22	0.53	0.20	0.22	0.24	0.23
<b>Ach Weight</b>		0.90	0.93	0.34	0.39	0.25	0.25	3.17	0.25	0.53	0.75	0.45
<b>Int Weight</b>		0.91	0.91	0.91	0.91	0.91	0.91	5.45	0.91	0.91	0.91	0.91
<b>Max</b>	108.00	1.00	1.00	1.00	1.00	1.00	1.00	6.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO2 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>		0.90	0.93	0.34	0.39	0.25	0.25	3.17	0.25	0.53	0.75	0.45
<b>AO2 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN3 (B14) (cont.)</b>	<b>A3e</b>	<b>A3f</b>	<b>A3g</b>	<b>A4a</b>	<b>A4b</b>	<b>A4c</b>	<b>A4d</b>	<b>A4e</b>	<b>A4f</b>	<b>A5a</b>	<b>A5b</b>	<b>A5c</b>
<b>Mean</b>	0.93	0.93	0.89	0.99	0.96	0.79	0.29	0.81	0.95	0.87	0.97	0.96
<b>SD</b>	0.26	0.26	0.31	0.11	0.19	0.41	0.45	0.39	0.22	0.34	0.17	0.20
<b>R item:total</b>	0.27	0.21	0.29	0.17	0.18	0.31	0.26	0.44	0.28	0.23	0.22	0.19
<b>Ach Weight</b>	0.48	0.37	0.61	0.13	0.23	0.87	0.80	1.16	0.41	0.51	0.25	0.26
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>	0.48	0.37	0.61	0.13	0.23	0.87	0.80	1.16	0.41	0.00	0.00	0.00
<b>AO2 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.25	0.26
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN3 (B14) (cont.)</b>	<b>A5d</b>	<b>A5e</b>	<b>A5f</b>	<b>A5g</b>	<b>A6a</b>	<b>A6b</b>	<b>A6c</b>	<b>A6d</b>	<b>A6e</b>	<b>A6f</b>	<b>A6g</b>	<b>A6h</b>
<b>Mean</b>	0.98	0.97	0.88	0.95	0.70	0.92	0.89	0.93	0.80	0.81	0.65	0.85
<b>SD</b>	0.14	0.18	0.33	0.21	0.46	0.28	0.31	0.26	0.40	0.40	0.48	0.35
<b>R item:total</b>	0.18	0.21	0.16	0.24	0.10	0.23	0.28	0.23	0.29	0.36	0.36	0.22
<b>Ach Weight</b>	0.17	0.25	0.35	0.35	0.30	0.44	0.59	0.40	0.78	0.97	1.17	0.53
<b>Int Weight</b>	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 weight</b>	0.17	0.25	0.35	0.35	0.30	0.44	0.59	0.40	0.78	0.97	1.17	0.53
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>FREN3 (B14) (cont.)</b>	<b>A6i</b>	<b>A6j</b>	<b>A6k</b>	<b>A7a</b>	<b>A7b</b>	<b>A7c</b>	<b>A8</b>	<b>A9</b>	<b>B14C</b>	<b>B14RV</b>	<b>B14CL</b>	<b>B14A</b>	
<b>Mean</b>	0.87	0.64	0.90	2.13	0.71	2.13	5.69	4.73	13.88	3.18	3.09	2.97	
<b>SD</b>	0.34	0.48	0.31	0.94	0.45	0.87	2.07	2.05	5.40	1.09	1.07	1.05	
<b>R item:total</b>	0.30	0.36	0.24	0.50	0.39	0.50	0.73	0.74	0.85	0.83	0.83	0.83	
<b>Ach Weight</b>	0.68	1.17	0.50	3.14	1.18	2.98	10.25	10.32	31.11	6.14	6.04	5.88	
<b>Int Weight</b>	0.91	0.91	0.91	2.73	0.91	2.73	9.09	9.09	22.73	4.55	4.55	4.55	
<b>Max</b>	1.00	1.00	1.00	3.00	1.00	3.00	10.00	10.00	25.00	5.00	5.00	5.00	
													<b>Total</b>
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>22.73</b>
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	0.00	0.00	0.00	<b>54.55</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	100.00	<b>22.73</b>
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>13.28</b>
<b>AO2 weight</b>	0.68	1.17	0.50	3.14	1.18	2.98	10.25	0.00	31.11	0.00	0.00	0.00	<b>58.33</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	0.00	6.14	6.04	5.88	<b>28.39</b>

## A-level Maths

### Assessment Objectives

The schemes of assessment will assess candidates' ability to:

AO1 Recall, select and use their knowledge of mathematical facts, concepts and techniques in a variety of contexts.

AO2 Construct rigorous mathematical arguments and proofs through use of precise statements, logical deduction and inference and by the manipulation of mathematical expressions, including the construction of extended arguments for handling substantial problems presented in unstructured form.

AO3 Recall, select and use their knowledge of standard mathematical models to represent situations in the real world; recognise and understand given representations involving standard models; present and interpret results from such models in terms of the original situation, including discussion of the assumptions made and refinement of such models.

AO4 Comprehend translations of common realistic contexts into mathematics; use the results of calculations to make predictions, or comment on the context; and, where appropriate, read critically and comprehend longer mathematical arguments or examples of applications.

AO5 Use contemporary calculator technology and other permitted resources (such as formulae booklets or statistical tables) accurately and efficiently; understand when not to use such technology, and its limitations; give answers to appropriate accuracy.

### A-level Certifying Candidates

Table 20 shows the achieved weightings of units and their corresponding assessment objectives for candidates certifying A-level Maths in summer 2011. There are many optional units and therefore many routes to certification in A-level Maths. The route illustrated is that with the highest entry. Note that certain A-level routes permit the combination of four AS units and two A2 units, as is the case here. The units MPC1-4 assess pure core maths, MS1B statistics, and MM1B mechanics.

**Table 20. The achieved weightings of units and their corresponding assessment objectives for candidates certifying A-level Maths in summer 2011 (N = 4,162).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	AO4	AO5	Ach AO1	Ach AO2	Ach AO3	Ach AO4	Ach AO5
MPC1 <i>AS Written</i>	16.67	10.76	7.59	7.59	0.00	1.48	0.00	4.90	4.90	0.00	0.96	0.00
MPC2 <i>AS Written</i>	16.67	13.18	6.81	6.81	0.00	1.52	1.52	5.39	5.39	0.00	1.20	1.20
MPC3 <i>A2 Written</i>	16.67	21.60	6.81	6.81	0.00	1.52	1.52	8.83	8.83	0.00	1.97	1.97
MPC4 <i>A2 Written</i>	16.67	26.29	6.81	6.81	0.00	1.52	1.52	10.75	10.75	0.00	2.40	2.40
MS1B <i>AS Written</i>	16.67	12.08	3.88	3.88	5.53	1.43	1.94	2.82	2.82	4.00	1.04	1.41
MM1B <i>AS Written</i>	16.67	16.09	3.88	3.88	5.53	1.43	1.94	3.75	3.75	5.33	1.38	1.87
<b>Total</b>			<b>35.80</b>	<b>35.80</b>	<b>11.05</b>	<b>8.91</b>	<b>8.45</b>	<b>36.43</b>	<b>36.43</b>	<b>9.34</b>	<b>8.95</b>	<b>8.86</b>
<b>Difference</b>								<b>0.63</b>	<b>0.63</b>	<b>-1.71</b>	<b>0.04</b>	<b>0.41</b>

The differences between the intended and achieved weights for the two A2 units, MPC3 and MPC4, are striking at +4.93% and +9.62%, respectively. Clearly, these units are having an unintentionally strong influence on the final results of A-level candidates, most likely because the less demanding AS units do not discriminate between candidates as well. The most noticeable consequence for the assessment objectives is that AO3, which is only assessed in the statistics and mechanics units, is underweighted.

This analysis assumes that, within each unit, the assessment objectives have achieved their intended weights. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units. An item level analysis is required to confirm or refute this. It should be noted that the majority of certificating candidates will not have taken all of their units in the certificating series. To sample such candidates would introduce two fundamental problems: first, they are few in number; second, they are unrepresentative of how candidates enter for units. It would be unwise to draw conclusions from their data; rather, it would be better to monitor the weightings over several series. If there are stable, undesirable patterns in the data, structural changes to units or improvements to the setting and/or marking of questions may be desirable.

For A-level Maths, the enhanced results analyses (ERA) provided to centres are broken down by subject content rather than assessment objectives. In the case of MPC1, for example, the part-questions are identified as assessing algebra, coordinate geometry, differentiation, and integration, rather than the more general assessment objectives. The item analyses presented here are based on subject content not assessment objectives but, otherwise, the method is the same.

#### **MPC1 - Pure Core 1**

Table 21 shows the intended and achieved weights for the questions and the corresponding subject content for MPC1. Candidates must answer all questions on this paper. The results show that the achieved weightings are very close to those intended, with algebra questions being slightly underweighted and coordinate geometry being slightly overweighted.

#### **MPC2 - Pure Core 2**

Table 22 shows the intended and achieved weights for the questions and the corresponding subject content for MPC2. Candidates must answer all questions on this paper. The questions on integration have achieved somewhat more than their intended weights (+3.12%), but the impact on other subject content is spread across sequences and series, trigonometry, and exponentials and logarithms.

#### **MPC3 - Pure Core 3**

Table 23 shows the intended and achieved weights for the questions and the corresponding subject content for MPC3. Candidates must answer all questions on this paper. It is notable that, as with MPC1 and MPC2, respectively, the total achieved weight of the algebra questions was less than intended and the total achieved weight of the integration questions was higher than intended.

#### **MPC4 - Pure Core 4**

Table 24 shows the intended and achieved weights for the questions and the corresponding subject content for MPC4. Candidates must answer all questions on this paper. The questions on algebra and functions have achieved a weighting of -5.54% – approximately 1/3 – under their intended weighting of 16%, trigonometry is overweighted by +2.94% – almost 1.5 times its intended weight – and the questions on exponentials and logarithms have achieved approximately half of their total intended weight (-3.97%). It is worth noting that trigonometry is assessed on one part-question only (4b);

therefore, the total achieved weighting for that subject content is dependent on whether that one question proves to be particularly good or poor at discriminating between candidates.

### **MS1B - Statistics 1B**

Table 25 shows the intended and achieved weights for the questions and the corresponding subject content for MS1B. Candidates must answer all questions on this paper. With the exception of numerical measures, the achieved weights for each area of subject content on this paper are considerably different to what was intended. The total weighting for correlation and regression questions is -9.16% – greater than 1/3 – below the intended total weighting.

### **MM1B - Mechanics 1B**

Table 26 shows the intended and achieved weights for the questions and the corresponding subject content for MM1B. Candidates must answer all questions on this paper. The differences between intended and achieved weightings for most areas of subject content are small in absolute terms, with the notable exceptions of kinematics in one and two dimensions (-6.19%) and projectiles (+4.23%). However, there are a number of small areas of subject content, with small intended weightings, where the achieved weightings, though not dramatically different in absolute terms, are rather more dramatic when expressed as proportions. For example, statics and forces are intended to constitute 2.67% of the total paper marks (2/75). Their achieved weighting of 1.60% is -1.07% less than intended but this accounts for over 40% of the intended weight, effectively reducing the value of the questions to 1/75. The overall weighting of a small area of content is likely to be especially volatile owing to its concentration in one or two low-tariff questions. Unless there is a consistent pattern of under- or overweighting over time, there is probably little to be done about it. When the specification is redeveloped, a higher maximum mark for the paper – and higher tariff items for the small areas of content – could be considered as a means to achieving a better, or less volatile, balance of achieved weightings.

**Table 21. The achieved weightings of questions and their corresponding subject content areas for MPC1 in summer 2011 (N = 15,956).**

<b>MPC1</b>	<b>TOTAL</b>	<b>1a</b>	<b>1bi</b>	<b>1bii</b>	<b>1c</b>	<b>2ai</b>	<b>2aii</b>	<b>2b</b>	<b>3a</b>	<b>3bi</b>	<b>3bii</b>	<b>3ci</b>	<b>3cii</b>	<b>4a</b>	<b>4bi</b>	<b>4bii</b>
<b>Mean</b>	44.94	1.54	1.37	1.38	1.96	0.88	2.08	2.86	1.71	1.48	0.62	2.02	1.95	2.12	1.03	0.42
<b>SD</b>	18.47	0.76	0.83	0.86	1.30	0.32	1.13	1.43	0.57	0.71	0.49	1.27	1.14	1.04	0.84	0.49
<b>R item:total</b>		0.58	0.62	0.50	0.62	0.43	0.61	0.67	0.53	0.62	0.50	0.68	0.69	0.62	0.71	0.63
<b>Ach Weight</b>		2.40	2.80	2.34	4.35	0.75	3.75	5.20	1.61	2.38	1.31	4.65	4.27	3.47	3.24	1.68
<b>Int Weight</b>		2.67	2.67	2.67	4.00	1.33	4.00	5.33	2.67	2.67	1.33	4.00	4.00	4.00	2.67	1.33
<b>Max</b>	75.00	2.00	2.00	2.00	3.00	1.00	3.00	4.00	2.00	2.00	1.00	3.00	3.00	3.00	2.00	1.00
<b><u>Intended Weights % Total Marks</u></b>																
<b>Algebra</b>		0.00	0.00	0.00	0.00	1.33	4.00	5.33	0.00	0.00	0.00	0.00	0.00	4.00	2.67	1.33
<b>Coordinate Geometry</b>		2.67	2.67	2.67	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Differentiation</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	2.67	1.33	4.00	4.00	0.00	0.00	0.00
<b>Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>																
<b>Algebra</b>		0.00	0.00	0.00	0.00	0.75	3.75	5.20	0.00	0.00	0.00	0.00	0.00	3.47	3.24	1.68
<b>Coordinate Geometry</b>		2.40	2.80	2.34	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Differentiation</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	2.38	1.31	4.65	4.27	0.00	0.00	0.00
<b>Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>MPC1 (cont.)</b>	<b>4biii</b>	<b>4c</b>	<b>5a</b>	<b>5b</b>	<b>5ci</b>	<b>5cii</b>	<b>6a</b>	<b>6b</b>	<b>7a</b>	<b>7b</b>	<b>8a</b>	<b>8b</b>	<b>8c</b>	<b>8di</b>	<b>8dii</b>	
<b>Mean</b>	1.89	1.29	1.44	1.59	1.55	0.63	3.64	1.61	1.04	1.52	1.52	1.25	1.02	1.07	0.46	
<b>SD</b>	1.13	1.18	0.82	0.67	0.71	0.74	1.56	1.22	0.88	1.49	0.70	1.33	1.31	1.33	0.77	
<b>R item:total</b>	0.70	0.69	0.47	0.48	0.61	0.63	0.71	0.74	0.46	0.72	0.63	0.70	0.61	0.73	0.59	
<b>Ach Weight</b>	4.29	4.44	2.08	1.74	2.35	2.51	5.99	4.87	2.18	5.80	2.40	5.08	4.34	5.29	2.44	
<b>Int Weight</b>	4.00	4.00	2.67	2.67	2.67	2.67	6.67	4.00	2.67	5.33	2.67	4.00	4.00	4.00	2.67	
<b>Max</b>	3.00	3.00	2.00	2.00	2.00	2.00	5.00	3.00	2.00	4.00	2.00	3.00	3.00	3.00	2.00	
<b><u>Intended Weights % Total Marks</u></b>																<b>Total</b>
<b>Algebra</b>	4.00	4.00	2.67	2.67	2.67	2.67	0.00	0.00	2.67	5.33	0.00	0.00	0.00	0.00	0.00	<b>45.33</b>
<b>Coordinate Geometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	4.00	4.00	4.00	2.67	<b>29.33</b>
<b>Differentiation</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>14.67</b>
<b>Integration</b>	0.00	0.00	0.00	0.00	0.00	0.00	6.67	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>10.67</b>
<b><u>Achieved Weights % Total Marks</u></b>																
<b>Algebra</b>	4.29	4.44	2.08	1.74	2.35	2.51	0.00	0.00	2.18	5.80	0.00	0.00	0.00	0.00	0.00	<b>43.49</b>
<b>Coordinate Geometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	5.08	4.34	5.29	2.44	<b>31.43</b>
<b>Differentiation</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>14.22</b>
<b>Integration</b>	0.00	0.00	0.00	0.00	0.00	0.00	5.99	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>10.86</b>

**Table 22. The achieved weightings of questions and their corresponding subject content areas for MPC2 in summer 2011 (N = 26,393).**

<b>MPC2</b>	<b>TOTAL</b>	<b>1a</b>	<b>1b</b>	<b>2a</b>	<b>2bi</b>	<b>2bii</b>	<b>3a</b>	<b>3bi</b>	<b>3bii</b>	<b>4a</b>	<b>4b</b>	<b>4ci</b>	<b>4cii</b>	<b>5a</b>
<b>Mean</b>	40.89	2.26	2.47	1.82	1.87	1.02	2.59	2.34	1.10	1.38	1.42	0.46	0.76	2.76
<b>SD</b>	16.00	0.96	1.08	0.56	0.49	0.49	0.94	2.13	0.64	0.81	0.73	0.71	1.29	0.65
<b>R item:total</b>		0.53	0.55	0.42	0.45	0.42	0.47	0.70	0.65	0.57	0.59	0.56	0.60	0.44
<b>Ach Weight</b>		3.16	3.69	1.45	1.37	1.29	2.74	9.36	2.61	2.86	2.70	2.46	4.87	1.77
<b>Int Weight</b>		4.00	4.00	2.67	2.67	2.67	4.00	6.67	2.67	2.67	2.67	2.67	5.33	4.00
<b>Max</b>	75.00	3.00	3.00	2.00	2.00	2.00	3.00	5.00	2.00	2.00	2.00	2.00	4.00	3.00
<b><u>Intended Weights % Total Marks</u></b>														
<b>Algebra and Functions</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	2.67	0.00	0.00
<b>Sequences and Series</b>		0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Trigonometry</b>		4.00	4.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Exponentials and Logarithms</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	5.33	0.00
<b>Differentiation</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
<b>Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	6.67	2.67	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>														
<b>Algebra and Functions</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	2.46	0.00	0.00
<b>Sequences and Series</b>		0.00	0.00	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Trigonometry</b>		3.16	3.69	1.45	1.37	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Exponentials and Logarithms</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	0.00	0.00	4.87	0.00
<b>Differentiation</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77
<b>Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	9.36	2.61	0.00	0.00	0.00	0.00	0.00

<b>MPC2 (cont.)</b>	<b>5bi</b>	<b>5bii</b>	<b>5ci</b>	<b>5cii</b>	<b>6a</b>	<b>6b</b>	<b>6c</b>	<b>7a</b>	<b>7b</b>	<b>8</b>	<b>9a</b>	<b>9b</b>	<b>9ci</b>	<b>9cii</b>	
<b>Mean</b>	1.96	0.27	1.81	0.37	2.78	1.19	1.51	2.34	0.67	1.74	1.79	0.97	0.47	0.77	
<b>SD</b>	1.25	0.44	1.62	0.71	1.46	0.90	1.73	1.84	0.47	1.62	0.59	0.77	0.50	1.06	
<b>R item:total</b>	0.68	0.53	0.73	0.56	0.64	0.57	0.69	0.72	0.51	0.68	0.41	0.58	0.52	0.59	
<b>Ach Weight</b>	5.32	1.47	7.40	2.48	5.82	3.18	7.47	8.30	1.50	6.93	1.50	2.81	1.62	3.89	
<b>Int Weight</b>	4.00	1.33	5.33	2.67	5.33	2.67	5.33	6.67	1.33	5.33	2.67	4.00	1.33	5.33	
<b>Max</b>	3.00	1.00	4.00	2.00	4.00	2.00	4.00	5.00	1.00	4.00	2.00	3.00	1.00	4.00	
<b><u>Intended Weights % Total Marks</u></b>															<b>Total</b>
<b>Algebra and Functions</b>	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>8.00</b>
<b>Sequences and Series</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.67	1.33	0.00	2.67	4.00	1.33	0.00	<b>20.00</b>
<b>Trigonometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	5.33	0.00	0.00	5.33	0.00	0.00	0.00	0.00	<b>26.67</b>
<b>Exponentials and Logarithms</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.33	<b>13.33</b>
<b>Differentiation</b>	4.00	1.33	5.33	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>17.33</b>
<b>Integration</b>	0.00	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>14.67</b>
<b><u>Achieved Weights % Total Marks</u></b>															
<b>Algebra and Functions</b>	0.00	0.00	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>8.34</b>
<b>Sequences and Series</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30	1.50	0.00	1.50	2.81	1.62	0.00	<b>18.46</b>
<b>Trigonometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.00	6.93	0.00	0.00	0.00	0.00	<b>25.36</b>
<b>Exponentials and Logarithms</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89	<b>11.62</b>
<b>Differentiation</b>	5.32	1.47	7.40	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>18.43</b>
<b>Integration</b>	0.00	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>17.78</b>

**Table 23. The achieved weightings of questions and their corresponding subject content areas for MPC3 in summer 2011 (N = 10,226).**

<b>MPC3</b>	<b>TOTAL</b>	<b>1a</b>	<b>1b</b>	<b>1c</b>	<b>2ai</b>	<b>2aii</b>	<b>2b</b>	<b>3a</b>	<b>3b</b>	<b>3c</b>	<b>4ai</b>	<b>4aii</b>	<b>4b</b>	<b>5a</b>
<b>Mean</b>	47.82	0.78	1.50	3.35	2.59	1.30	2.11	1.26	0.90	1.51	1.62	3.39	2.67	0.67
<b>SD</b>	15.73	0.42	0.65	1.13	1.02	0.85	1.48	0.88	0.30	0.83	0.63	2.57	1.07	0.47
<b>R item:total</b>		0.41	0.53	0.48	0.52	0.65	0.67	0.55	0.43	0.50	0.54	0.73	0.47	0.44
<b>Ach Weight</b>		1.07	2.19	3.49	3.39	3.49	6.32	3.08	0.83	2.65	2.15	11.97	3.16	1.31
<b>Int Weight</b>		1.33	2.67	5.33	4.00	2.67	5.33	2.67	1.33	2.67	2.67	8.00	5.33	1.33
<b>Max</b>	75.00	1.00	2.00	4.00	3.00	2.00	4.00	2.00	1.00	2.00	2.00	6.00	4.00	1.00
<b><u>Intended Weights % Total Marks</u></b>														
<b>Algebra and Functions</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.33	1.33
<b>Trigonometry</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.00	2.67	8.00	0.00	0.00
<b>Exponentials and Logarithms</b>		1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Differentiation</b>		0.00	2.67	0.00	4.00	2.67	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Numerical Methods</b>		0.00	0.00	5.33	0.00	0.00	0.00	2.67	0.00	2.67	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>														
<b>Algebra and Functions</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16	1.31
<b>Trigonometry</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	2.15	11.97	0.00	0.00
<b>Exponentials and Logarithms</b>		1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Differentiation</b>		0.00	2.19	0.00	3.39	3.49	6.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Numerical Methods</b>		0.00	0.00	3.49	0.00	0.00	0.00	3.08	0.00	2.65	0.00	0.00	0.00	0.00

<b>MPC3 (cont.)</b>	<b>5b</b>	<b>5c</b>	<b>5d</b>	<b>6a</b>	<b>6b</b>	<b>7ai</b>	<b>7aii</b>	<b>7bi</b>	<b>7bii</b>	<b>8</b>	<b>9a</b>	<b>9b</b>	<b>9c</b>	
<b>Mean</b>	2.61	0.55	1.92	0.87	3.84	1.57	2.32	3.38	0.41	2.06	1.79	1.46	1.40	
<b>SD</b>	0.82	0.50	0.95	0.34	1.94	0.73	0.96	1.71	0.73	1.84	1.30	0.88	2.05	
<b>R item:total</b>	0.51	0.41	0.54	0.46	0.65	0.42	0.47	0.63	0.47	0.68	0.66	0.53	0.66	
<b>Ach Weight</b>	2.67	1.28	3.23	1.00	7.99	1.94	2.86	6.82	2.17	7.99	5.45	2.97	8.54	
<b>Int Weight</b>	4.00	1.33	4.00	1.33	6.67	2.67	4.00	6.67	2.67	6.67	4.00	2.67	8.00	
<b>Max</b>	3.00	1.00	3.00	1.00	5.00	2.00	3.00	5.00	2.00	5.00	3.00	2.00	6.00	
<b><u>Intended Weights % Total Marks</u></b>														<b>Total</b>
<b>Algebra and Functions</b>	4.00	1.33	4.00	0.00	0.00	2.67	4.00	6.67	2.67	0.00	0.00	0.00	0.00	<b>32.00</b>
<b>Trigonometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>12.00</b>
<b>Exponentials and Logarithms</b>	0.00	0.00	0.00	1.33	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.33</b>
<b>Differentiation</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	<b>17.33</b>
<b>Integration</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.67	4.00	0.00	8.00	<b>18.67</b>
<b>Numerical Methods</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>10.67</b>
<b><u>Achieved Weights % Total Marks</u></b>														
<b>Algebra and Functions</b>	2.67	1.28	3.23	0.00	0.00	1.94	2.86	6.82	2.17	0.00	0.00	0.00	0.00	<b>25.44</b>
<b>Trigonometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>14.96</b>
<b>Exponentials and Logarithms</b>	0.00	0.00	0.00	1.00	7.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>10.05</b>
<b>Differentiation</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97	0.00	<b>18.36</b>
<b>Integration</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99	5.45	0.00	8.54	<b>21.98</b>
<b>Numerical Methods</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.21</b>

**Table 24. The achieved weightings of questions and their corresponding subject content areas for MPC4 in summer 2011 (N = 14,744).**

<b>MPC4</b>	<b>TOTAL</b>	<b>1a</b>	<b>1b</b>	<b>1c</b>	<b>2ai</b>	<b>2aii</b>	<b>2b</b>	<b>3ai</b>	<b>3aii</b>	<b>3b</b>	<b>4ai</b>	<b>4aii</b>	<b>4b</b>
<b>Mean</b>	42.63	0.96	1.49	3.40	0.97	1.79	2.02	1.65	2.23	1.03	3.07	2.62	2.09
<b>SD</b>	15.66	0.18	0.59	1.13	0.18	0.51	0.99	0.66	1.04	0.88	1.33	1.52	2.12
<b>R item:total</b>		0.13	0.28	0.48	0.28	0.37	0.40	0.50	0.66	0.65	0.68	0.69	0.71
<b>Ach Weight</b>		0.15	1.08	3.42	0.32	1.21	2.50	2.10	4.41	3.67	5.79	6.68	9.61
<b>Int Weight</b>		1.33	2.67	5.33	1.33	2.67	4.00	2.67	4.00	2.67	5.33	5.33	6.67
<b>Max</b>	75.00	1.00	2.00	4.00	1.00	2.00	3.00	2.00	3.00	2.00	4.00	4.00	5.00
<b><u>Intended Weights % Total Marks</u></b>													
<b>Algebra and Functions</b>		1.33	2.67	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sequences and Series</b>		0.00	0.00	0.00	0.00	0.00	0.00	2.67	4.00	2.67	0.00	0.00	0.00
<b>Trigonometry</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.67
<b>Exponentials and Logarithms</b>		0.00	0.00	0.00	1.33	2.67	4.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Differentiation and Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.33	5.33	0.00
<b>Vectors</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>													
<b>Algebra and Functions</b>		0.15	1.08	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sequences and Series</b>		0.00	0.00	0.00	0.00	0.00	0.00	2.10	4.41	3.67	0.00	0.00	0.00
<b>Trigonometry</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61
<b>Exponentials and Logarithms</b>		0.00	0.00	0.00	0.32	1.21	2.50	0.00	0.00	0.00	0.00	0.00	0.00
<b>Differentiation and Integration</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.79	6.68	0.00
<b>Vectors</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>MPC4 (cont.)</b>	<b>5a</b>	<b>5bi</b>	<b>5bii</b>	<b>6a</b>	<b>6b</b>	<b>6c</b>	<b>7a</b>	<b>7bi</b>	<b>7bii</b>	<b>8a</b>	<b>8b</b>	
<b>Mean</b>	2.13	2.33	1.25	0.66	4.72	0.98	0.60	0.35	0.63	3.19	2.45	
<b>SD</b>	1.01	1.55	1.92	0.47	2.39	0.80	0.58	0.87	0.48	1.20	2.55	
<b>R item:total</b>	0.61	0.72	0.67	0.45	0.76	0.69	0.59	0.47	0.37	0.58	0.79	
<b>Ach Weight</b>	3.95	7.15	8.21	1.36	11.68	3.52	2.19	2.65	1.12	4.46	12.79	
<b>Int Weight</b>	4.00	5.33	6.67	1.33	9.33	2.67	2.67	5.33	1.33	5.33	12.00	
<b>Max</b>	3.00	4.00	5.00	1.00	7.00	2.00	2.00	4.00	1.00	4.00	9.00	
<b><u>Intended Weights % Total Marks</u></b>												<b>Total</b>
<b>Algebra and Functions</b>	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.00	5.33	0.00	<b>16.00</b>
<b>Sequences and Series</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.33</b>
<b>Trigonometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>6.67</b>
<b>Exponentials and Logarithms</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>8.00</b>
<b>Differentiation and Integration</b>	0.00	0.00	0.00	0.00	9.33	2.67	2.67	5.33	1.33	0.00	12.00	<b>44.00</b>
<b>Vectors</b>	4.00	5.33	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>16.00</b>
<b><u>Achieved Weights % Total Marks</u></b>												
<b>Algebra and Functions</b>	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	4.46	0.00	<b>10.46</b>
<b>Sequences and Series</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>10.18</b>
<b>Trigonometry</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.61</b>
<b>Exponentials and Logarithms</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>4.03</b>
<b>Differentiation and Integration</b>	0.00	0.00	0.00	0.00	11.68	3.52	2.19	2.65	1.12	0.00	12.79	<b>46.42</b>
<b>Vectors</b>	3.95	7.15	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>19.31</b>

**Table 25. The achieved weightings of questions and their corresponding subject content areas for MS1B in summer 2011 (N = 9,539).**

<b>MS1B</b>	<b>TOTAL</b>	<b>1ai</b>	<b>1aii</b>	<b>1bi</b>	<b>1bii</b>	<b>1c</b>	<b>2ai</b>	<b>2aii</b>	<b>2bi</b>	<b>2bii</b>	<b>3ai</b>	<b>3aii</b>	<b>3aiii</b>	<b>3aiv</b>	<b>3bi+ii</b>	<b>4a</b>	<b>4bi</b>
<b>Mean</b>	54.34	0.94	2.47	0.91	2.89	0.57	2.90	1.80	1.15	2.39	3.80	1.88	0.43	0.73	2.52	0.64	3.11
<b>SD</b>	10.34	0.24	1.00	0.29	1.49	0.78	0.47	0.58	0.97	1.78	0.83	0.39	0.49	0.45	0.83	0.48	1.38
<b>R item:total</b>		0.24	0.49	0.22	0.53	0.35	0.34	0.38	0.44	0.59	0.31	0.36	0.07	0.17	0.47	0.33	0.51
<b>Ach Weight</b>		0.55	4.75	0.61	7.68	2.59	1.58	2.17	4.10	10.23	2.48	1.35	0.35	0.75	3.81	1.52	6.79
<b>Int Weight</b>		1.33	4.00	1.33	5.33	2.67	4.00	2.67	2.67	5.33	5.33	2.67	1.33	1.33	4.00	1.33	5.33
<b>Max</b>	75.00	1.00	3.00	1.00	4.00	2.00	3.00	2.00	2.00	4.00	4.00	2.00	1.00	1.00	3.00	1.00	4.00
<b><u>Intended Weights % Total Marks</u></b>																	
<b>Numerical Measures</b>		1.33	4.00	1.33	5.33	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Probability</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Binomial Distribution</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Normal Distribution</b>		0.00	0.00	0.00	0.00	0.00	4.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estimation</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00	0.00	1.33	5.33
<b>Correlation and Regression</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.33	2.67	1.33	1.33	4.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>																	
<b>Numerical Measures</b>		0.55	4.75	0.61	7.68	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Probability</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Binomial Distribution</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Normal Distribution</b>		0.00	0.00	0.00	0.00	0.00	1.58	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Estimation</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.23	0.00	0.00	0.00	0.00	0.00	1.52	6.79
<b>Correlation and Regression</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	1.35	0.35	0.75	3.81	0.00	0.00

<b>MS1B (cont.)</b>	<b>4bii</b>	<b>4c</b>	<b>5ai</b>	<b>5aii</b>	<b>5aiii A+B</b>	<b>5bi</b>	<b>5bii</b>	<b>6ai</b>	<b>6aii</b>	<b>6aiii</b>	<b>6bi</b>	<b>6bii</b>	<b>7a</b>	<b>7b</b>	<b>7ci</b>	<b>7cii</b>	
<b>Mean</b>	0.92	0.41	2.98	1.34	0.61	1.86	2.50	0.91	1.50	2.23	1.41	2.17	0.91	1.32	2.85	1.33	
<b>SD</b>	0.97	0.71	0.20	0.93	0.86	0.49	1.00	0.28	0.74	1.04	0.86	1.13	0.68	0.74	0.54	0.59	
<b>R item:total</b>	0.40	0.35	0.08	0.34	0.40	0.26	0.43	0.41	0.55	0.57	0.50	0.63	0.40	0.38	0.23	0.38	
<b>Ach Weight</b>	3.77	2.41	0.15	3.08	3.34	1.25	4.13	1.11	3.97	5.69	4.15	6.86	2.64	2.76	1.21	2.16	
<b>Int Weight</b>	2.67	2.67	4.00	2.67	4.00	2.67	4.00	1.33	2.67	4.00	2.67	4.00	2.67	2.67	4.00	2.67	
<b>Max</b>	2.00	2.00	3.00	2.00	3.00	2.00	3.00	1.00	2.00	3.00	2.00	3.00	2.00	2.00	3.00	2.00	
<b><u>Intended Weights % Total Marks</u></b>																	<b>Total</b>
<b>Numerical Measures</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>14.67</b>
<b>Probability</b>	0.00	0.00	4.00	2.67	4.00	2.67	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>20.00</b>
<b>Binomial Distribution</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	2.67	4.00	2.67	4.00	0.00	0.00	0.00	0.00	<b>14.67</b>
<b>Normal Distribution</b>	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.33</b>
<b>Estimation</b>	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>14.67</b>
<b>Correlation and Regression</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.67	2.67	4.00	2.67	<b>26.67</b>
<b><u>Achieved Weights % Total Marks</u></b>																	
<b>Numerical Measures</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>16.18</b>
<b>Probability</b>	0.00	0.00	0.15	3.08	3.34	1.25	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>16.06</b>
<b>Binomial Distribution</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	3.97	5.69	4.15	6.86	0.00	0.00	0.00	0.00	<b>21.79</b>
<b>Normal Distribution</b>	0.00	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>6.16</b>
<b>Estimation</b>	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>22.31</b>
<b>Correlation and Regression</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.64	2.76	1.21	2.16	<b>17.51</b>

**Table 26. The achieved weightings of questions and their corresponding subject content areas for MM1B in summer 2011 (N = 10,097).**

<b>MM1B</b>	<b>TOTAL</b>	<b>1ai</b>	<b>1aii</b>	<b>1b</b>	<b>2a</b>	<b>2b</b>	<b>2c</b>	<b>2d</b>	<b>3a</b>	<b>3b</b>	<b>3c</b>	<b>3d</b>	<b>4a</b>	<b>4b</b>
<b>Mean</b>	49.70	2.73	1.81	2.12	0.85	0.93	1.77	2.33	0.94	2.23	2.21	1.48	2.17	1.91
<b>SD</b>	17.75	0.81	0.57	1.30	0.36	0.26	0.62	1.23	0.24	1.13	0.98	0.86	1.26	1.40
<b>R item:total</b>		0.47	0.46	0.56	0.43	0.50	0.57	0.67	0.31	0.57	0.51	0.52	0.67	0.64
<b>Ach Weight</b>		2.16	1.49	4.12	0.87	0.73	1.99	4.60	0.42	3.62	2.80	2.52	4.74	5.05
<b>Int Weight</b>		4.00	2.67	4.00	1.33	1.33	2.67	4.00	1.33	4.00	4.00	2.67	4.00	4.00
<b>Max</b>	75.00	3.00	2.00	3.00	1.00	1.00	2.00	3.00	1.00	3.00	3.00	2.00	3.00	3.00
<b><u>Intended Weights % Total Marks</u></b>														
<b>Mathematical Modelling</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Kinematics in One and Two Dimensions</b>		4.00	2.67	0.00	0.00	0.00	0.00	0.00	1.33	4.00	4.00	2.67	0.00	0.00
<b>Statics and Forces</b>		0.00	0.00	0.00	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Momentum</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00
<b>Newton's Laws of Motion</b>		0.00	0.00	4.00	0.00	0.00	2.67	4.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Connected Particles</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Projectiles</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>														
<b>Mathematical Modelling</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Kinematics in One and Two Dimensions</b>		2.16	1.49	0.00	0.00	0.00	0.00	0.00	0.42	3.62	2.80	2.52	0.00	0.00
<b>Statics and Forces</b>		0.00	0.00	0.00	0.87	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Momentum</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74	5.05
<b>Newton's Laws of Motion</b>		0.00	0.00	4.12	0.00	0.00	1.99	4.60	0.00	0.00	0.00	0.00	0.00	0.00
<b>Connected Particles</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Projectiles</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>MM1B (cont.)</b>	<b>5a</b>	<b>5b</b>	<b>5c</b>	<b>5di</b>	<b>5dii</b>	<b>6a</b>	<b>6b</b>	<b>6c</b>	<b>6d</b>	<b>7a</b>	<b>7b</b>	<b>7c</b>	<b>8a</b>	<b>8b</b>	
<b>Mean</b>	4.17	1.58	1.58	2.40	1.51	1.43	1.03	1.68	1.20	2.81	1.75	2.17	1.93	0.95	
<b>SD</b>	1.69	0.78	0.70	1.15	0.83	0.89	1.00	1.89	1.35	1.31	1.20	2.13	2.12	1.33	
<b>R item:total</b>	0.64	0.61	0.50	0.58	0.58	0.49	0.63	0.71	0.71	0.57	0.63	0.60	0.70	0.63	
<b>Ach Weight</b>	6.11	2.69	1.98	3.78	2.70	2.46	3.52	7.53	5.39	4.20	4.23	7.23	8.35	4.73	
<b>Int Weight</b>	6.67	2.67	2.67	4.00	2.67	2.67	2.67	5.33	4.00	5.33	4.00	6.67	6.67	4.00	
<b>Max</b>	5.00	2.00	2.00	3.00	2.00	2.00	2.00	4.00	3.00	4.00	3.00	5.00	5.00	3.00	
<b><u>Intended Weights % Total Marks</u></b>															<b>Total</b>
<b>Mathematical Modelling</b>	0.00	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>2.67</b>
<b>Kinematics in One and Two Dimensions</b>	0.00	0.00	0.00	4.00	2.67	0.00	0.00	0.00	0.00	5.33	4.00	6.67	0.00	0.00	<b>41.33</b>
<b>Statics and Forces</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>2.67</b>
<b>Momentum</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>8.00</b>
<b>Newton's Laws of Motion</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.67	4.00	<b>21.33</b>
<b>Connected Particles</b>	6.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.33</b>
<b>Projectiles</b>	0.00	0.00	0.00	0.00	0.00	2.67	2.67	5.33	4.00	0.00	0.00	0.00	0.00	0.00	<b>14.67</b>
<b><u>Achieved Weights % Total Marks</u></b>															
<b>Mathematical Modelling</b>	0.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>1.98</b>
<b>Kinematics in One and Two Dimensions</b>	0.00	0.00	0.00	3.78	2.70	0.00	0.00	0.00	0.00	4.20	4.23	7.23	0.00	0.00	<b>35.14</b>
<b>Statics and Forces</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>1.60</b>
<b>Momentum</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>9.79</b>
<b>Newton's Laws of Motion</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.35	4.73	<b>23.79</b>
<b>Connected Particles</b>	6.11	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>8.80</b>
<b>Projectiles</b>	0.00	0.00	0.00	0.00	0.00	2.46	3.52	7.53	5.39	0.00	0.00	0.00	0.00	0.00	<b>18.90</b>

## **GCSE Biology**

### **Assessment Objectives**

**AO1** Knowledge and understanding of science and how science works

Candidates should be able to:

- a) demonstrate knowledge and understanding of the scientific facts, concepts, techniques and terminology in the specification
- b) show understanding of how scientific evidence is collected and its relationship with scientific explanations and theories
- c) show understanding of how scientific knowledge and ideas change over time and how these changes are validated.

**AO2** Application of skills, knowledge and understanding

Candidates should be able to:

- a) apply concepts, develop arguments or draw conclusions related to familiar and unfamiliar situations
- b) plan a scientific task, such as a practical procedure, testing an idea, answering a question, or solving a problem
- c) show understanding of how decisions about science and technology are made in different situations, including contemporary situations and those raising ethical issues
- d) evaluate the impact of scientific developments or processes on individuals, communities or the environment.

**AO3** Practical, enquiry and data handling skills

Candidates should be able to:

- a) carry out practical tasks safely and skilfully
- b) evaluate the methods they use when collecting first-hand and secondary data
- c) analyse and interpret qualitative and quantitative data from different sources
- d) consider the validity and reliability of data in presenting and justifying conclusions.

### **GCSE Certifying Candidates**

There are multiple routes to certification in GCSE Biology. Firstly, unit 1 can be taken either as a written paper or as two objective test papers. Secondly, each unit, except for the controlled assessment, can be entered at foundation or higher tier level and candidates can certificate using a mixture of tiers. The four analyses reported here are for candidates who certificated using purely foundation tier and purely higher tier units via the written paper route and the objective test route. The separate sciences tend to have more higher tier entries than foundation tier entries, which makes sense because candidates who would struggle to achieve grade Cs in single sciences would probably do better on a core/combined science course. Among higher tier candidates, entries are far higher for the written paper route than they are the objective test route. The question paper analyses in the later sections therefore focus on the written papers rather than the objective test papers.

Table 27 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology via the higher tier written paper route in summer 2011.

**Table 27. The achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology (higher tier written papers) in summer 2011 (N = 26,001).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
BLY1H <i>Written Paper</i>	<b>25.00</b>	<b>22.40</b>	12.00	13.00	0.00	10.75	11.65	0.00
BLY2H <i>Written Paper</i>	<b>25.00</b>	<b>26.60</b>	12.00	13.00	0.00	12.77	13.83	0.00
BLY3H <i>Written Paper</i>	<b>25.00</b>	<b>31.60</b>	12.00	13.00	0.00	15.17	16.43	0.00
BLYC <i>Controlled Assessment</i>	<b>25.00</b>	<b>19.30</b>	0.00	5.00	20.00	0.00	3.86	15.44
<b>Total</b>	<b>100.00</b>	<b>99.90</b>	<b>36.00</b>	<b>44.00</b>	<b>20.00</b>	<b>38.69</b>	<b>45.77</b>	<b>15.44</b>
<b>Difference</b>						<b>2.69</b>	<b>1.77</b>	<b>-4.56</b>

The controlled assessment unit, BLYC, has achieved a weighting lower than that intended (-5.7%): a little over three quarters of the intended weight. The written papers are on balance overweighted. Although BLY1H is underweighted, BLY2H and BLY3H are overweighted and, since all three papers have a common weighting of assessment objectives, it is their collective weighting which is important in the context of the assessment objectives (though not necessarily for subject content). AO1 and AO2 are concentrated in the written papers and are thus overweighted overall, though AO2 is also assessed by the controlled assessment and consequently is slightly less overweighted than AO1. AO3 is exclusive to the controlled assessment and is thus underweighted.

Table 28 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology via the foundation tier written paper route in summer 2011.

**Table 28. The achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology (foundation tier written papers) in summer 2011 (N = 1,564).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
BLY1F <i>Written Paper</i>	<b>25.00</b>	<b>19.8</b>	12.00	13.00	0.00	9.50	10.30	0.00
BLY2F <i>Written Paper</i>	<b>25.00</b>	<b>22.7</b>	12.00	13.00	0.00	10.90	11.80	0.00
BLY3F <i>Written Paper</i>	<b>25.00</b>	<b>27.2</b>	12.00	13.00	0.00	13.06	14.14	0.00
BLYC <i>Controlled Assessment</i>	<b>25.00</b>	<b>30.3</b>	0.00	5.00	20.00	0.00	6.06	24.24
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>36.00</b>	<b>44.00</b>	<b>20.00</b>	<b>33.46</b>	<b>42.30</b>	<b>24.24</b>
<b>Difference</b>						<b>-2.54</b>	<b>-1.70</b>	<b>4.24</b>

There is something of a reversal in the pattern of achieved weightings for the foundation tier when compared with the higher tier. The controlled assessment, BLYC, exceeds its intended weight (+5.3%) whilst the written papers, with the exception of BLY3F, are underweighted. The result is that

AO1 and AO2 are slightly underweighted overall – AO2 less so because of its inclusion in BLYC – whilst AO3 is overweighted overall.

Table 29 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology via the higher tier objective test route in summer 2011.

**Table 29. The achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology (higher tier objective tests) in summer 2011 (N = 1,398).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
BLY1APH <i>Objective Test</i>	12.50	10.1	6.00	6.50	0.00	4.85	5.25	0.00
BLY1BPH <i>Objective Test</i>	12.50	10.1	6.00	6.50	0.00	4.85	5.25	0.00
BLY2H <i>Written Paper</i>	25.00	27.6	12.0 0	13.00	0.00	13.25	14.35	0.00
BLY3H <i>Written Paper</i>	25.00	33.2	12.0 0	13.00	0.00	15.94	17.26	0.00
BLYC <i>Controlled Assessment</i>	25.00	19.0	0.00	5.00	20.00	0.00	3.80	15.20
<b>Total</b>	<b>87.50</b>	<b>89.90</b>	<b>30.0 0</b>	<b>37.50</b>	<b>20.00</b>	<b>34.03</b>	<b>40.67</b>	<b>15.20</b>
<b>Difference</b>						<b>4.03</b>	<b>3.17</b>	<b>-4.80</b>

The achieved weightings for the higher tier objective test route follow the same pattern as the higher tier written paper route: the unit 1s and the controlled assessment are underweighted whilst units 2 and 3 are overweighted. Overall, the impact is similar, with AO1 and AO2 achieving above their intended weights and AO3 achieving below its intended weight.

Table 30 shows the achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology via the foundation tier objective test route in summer 2011.

**Table 30. The achieved weightings of units and their corresponding assessment objectives for candidates certificating GCSE Biology (foundation tier objective tests) in summer 2011 (N = 3,762).**

Unit	Intended Weight	Achieved Weight	AO1	AO2	AO3	Ach AO1	Ach AO2	Ach AO3
BLY1APF <i>Objective Test</i>	12.50	9.60	6.00	6.50	0.00	4.61	4.99	0.00
BLY1BPF <i>Objective Test</i>	12.50	9.50	6.00	6.50	0.00	4.56	4.94	0.00
BLY2F <i>Written</i>	25.00	23.70	12.00	13.00	0.00	11.38	12.32	0.00
BLY3F <i>Written</i>	25.00	27.70	12.00	13.00	0.00	13.30	14.40	0.00
BLYC <i>Controlled Assessment</i>	25.00	29.60	0.00	5.00	20.00	0.00	5.92	23.68
<b>Total</b>	<b>87.50</b>	<b>90.50</b>	<b>30.00</b>	<b>37.50</b>	<b>20.00</b>	<b>29.23</b>	<b>37.59</b>	<b>23.68</b>
<b>Difference</b>						<b>-0.77</b>	<b>0.09</b>	<b>3.68</b>

The achieved weightings for the foundation tier objective test route follow the same pattern as the foundation tier written paper route: the unit 1s and unit 2 are underweighted whilst units 3 and 4 are overweighted. Overall, AO1 achieves slightly less than its intended weight, AO2 achieves approximately its intended weight, and AO3 achieved below its intended weight.

For both the foundation and higher tier routes, unit 1 – whether in the form of the written paper or the objective test papers – achieved below its intended weight. Although, without further investigation, this is speculative, it is possible that the cause of this underweighting is resitting of the first unit. Early units in general tend to be resat more than later ones. Owing to the fact that candidates use their best mark to certificate, resitting could have the effect of bunching candidates' marks, in turn lowering the discrimination between candidates relative to that of other units.

The performance of the controlled assessment is interesting: it is overweighted for the foundation tier routes and underweighted for the higher tier routes. In the case of the foundation tier routes, the controlled assessment is the only unit that is not tiered. A consequence of this is that candidates can obtain uniform marks equivalent to the full range of grades: A\*-G. This gives the controlled assessment the potential to be more discriminating than the written papers, on which candidates uniform marks are capped at a top grade C.<sup>3</sup> In the case of the higher tier routes the explanation is probably less technical: it is likely that the controlled assessment simply does not discriminate between the higher tier candidates as affectively as do the written papers. Although the controlled assessment grade scale is relatively longer compared with the higher tier written papers, it is considerably less likely that higher tier candidates score at the bottom of the controlled assessment scale than it is that foundation tier candidates score at the top of it.

These explanations are speculative, but could be investigated further before concern is raised about the units or particular exam papers concerned. The performance of the unit 1s in particular could have more to do with the typical order in which units are taken, the resit behaviour of centres, and the rules governing it.

These analyses assume that, within each unit, the assessment objectives have achieved their intended weights. It is possible that, *within a unit*, a given assessment objective is over- or underweighted. This could potentially offset or exacerbate the effects of an imbalance in the weighting of units. An item level analysis is required to confirm or refute this. It should be noted that the majority of certificating candidates will not have taken all of their units in the certificating series. To sample such candidates would introduce two fundamental problems: first, they are few in number; second, they are unrepresentative of how candidates enter for units. It would be unwise to draw conclusions from their data; rather, it would be better to monitor the weightings over several series. If there are stable, undesirable patterns in the data, structural changes to units or improvements to the setting and/or marking of questions may be desirable.

### **BLY1F – Biology 1**

Table 31 shows the intended and achieved weights for the questions and their corresponding assessment objectives for BLY1F. Candidates must answer all questions on this paper. The results show that AO1 is overweighted by +13.9% at the expense of AO2, which is underweighted by -13.9%; rather than the intended 48:52 split, the achieved weightings are approximately 62:38.

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<sup>3</sup> Assuming that all candidates are entered for the appropriate tier, this ought not to be an issue, but it is an assumption which often does not hold true. For example, 11.5% of candidates for BLY1F in June 2011 achieved a raw mark of 35 or more (up to the maximum of 45). The raw mark of 35 was the position of the uniform mark cap, so all of these candidates received the maximum uniform mark (69) available for the unit.

### **BLY1H – Biology 1**

Table 32 shows the intended and achieved weights for the questions and their corresponding assessment objectives for BLY1H. Candidates must answer all questions on this paper. The results show that, as on the foundation tier paper, the achieved weight for AO1 is higher than intended (+17.58%) whilst the achieved weight for AO2 is lower than intended (-17.58%), again an approximately 60:40 achieved weighting compared with the intended weighting of 43:57.

### **BLY2F – Biology 2**

Table 33 shows the intended and achieved weights for the questions and their corresponding assessment objectives for BLY2F. Candidates must answer all questions on this paper. The results show that the achieved weightings of AO1 and AO2 are within 4% of the intended weights: approximately 52:48 compared with 48:52.

### **BLY2H – Biology 2**

Table 34 shows the intended and achieved weights for the questions and their corresponding assessment objectives for BLY2H. Candidates must answer all questions on this paper. The results show that the achieved weightings of AO1 and AO2 are in line with the intended weights: approximately 57:43.

### **BLY3F – Biology 3**

Table 35 shows the intended and achieved weights for the questions and their corresponding assessment objectives for BLY3F. Candidates must answer all questions on this paper. The results show that the achieved weight for AO1 is higher than intended (+16.85%) whilst the achieved weight for AO2 is lower than intended (-16.85%), an approximately 55:45 achieved weighting compared with the intended weighting of 39:61.

### **BLY3H – Biology 3**

Table 36 shows the intended and achieved weights for the questions and their corresponding assessment objectives for BLY3H. As on the foundation tier paper, the achieved weight for AO1 is higher than intended (+13.88%) whilst the achieved weight for AO2 is lower than intended (-13.88%), again an approximately 55:45 achieved weighting compared with the intended weighting of 41:59.

**Table 31. The achieved weightings of questions and their corresponding assessment objectives for BLY1F in summer 2011 (N = 13,173).**

BLY1F	TOTAL	1ai	1aii	1bi	1bii	1ci	1cii	2	3a	3b	4a	4b	5a	5bi	5bii
Mean	27.93	0.95	0.82	0.72	0.64	0.84	0.60	3.87	1.98	0.41	3.89	0.74	0.28	0.82	0.73
SD	5.62	0.22	0.38	0.45	0.48	0.36	0.49	0.38	1.28	0.49	0.46	0.76	0.45	0.38	0.44
R item:total		0.21	0.34	0.31	0.24	0.31	0.26	0.26	0.50	0.31	0.31	0.38	0.39	0.30	0.32
Ach Weight		0.84	2.33	2.47	2.07	2.04	2.26	1.73	11.35	2.67	2.52	5.13	3.12	2.05	2.54
Int Weight		2.22	2.22	2.22	2.22	2.22	2.22	8.89	8.89	2.22	8.89	4.44	2.22	2.22	2.22
Max	45.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	4.00	1.00	4.00	2.00	1.00	1.00	1.00
<b><u>Intended Weights</u></b>															
<b><u>% Total Marks</u></b>															
AO1 % of marks		100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	0.00	0.00	100.00	100.00	0.00	0.00
AO2 % of marks		0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00
AO3 % of marks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights</u></b>															
<b><u>% Total Marks</u></b>															
AO1 weight		0.84	2.33	2.47	2.07	2.04	2.26	0.00	11.35	0.00	0.00	5.13	3.12	0.00	0.00
AO2 weight		0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.00	2.67	2.52	0.00	0.00	2.05	2.54
AO3 weight		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY1F (cont.)</b>	<b>5c</b>	<b>6a</b>	<b>6b</b>	<b>6ci</b>	<b>6cii</b>	<b>7a</b>	<b>7bi</b>	<b>7bii</b>	<b>8a</b>	<b>8b</b>	<b>8c</b>	<b>8d</b>	<b>8e</b>	<b>8f</b>	<b>9</b>	
<b>Mean</b>	0.87	1.23	0.72	0.83	0.37	0.55	0.46	0.80	1.22	0.29	0.28	0.67	0.25	1.15	0.95	
<b>SD</b>	0.34	0.88	0.45	0.38	0.48	0.50	0.50	0.40	0.74	0.45	0.45	0.47	0.43	0.81	1.11	
<b>R item:total</b>	0.30	0.58	0.46	0.25	0.23	0.31	0.29	0.46	0.22	0.36	0.27	0.22	0.37	0.42	0.57	
<b>Ach Weight</b>	1.78	9.07	3.65	1.67	2.01	2.70	2.58	3.29	2.92	2.89	2.16	1.81	2.86	6.15	11.35	
<b>Int Weight</b>	2.22	4.44	2.22	2.22	2.22	2.22	2.22	2.22	4.44	2.22	2.22	2.22	2.22	4.44	8.89	
<b>Max</b>	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	2.00	4.00	
<b><u>Intended Weights</u></b>																
<b><u>% Total Marks</u></b>																<b>Total</b>
<b>AO1 % of marks</b>	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	<b>48.28</b>
<b>AO2 % of marks</b>	100.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	<b>51.72</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b><u>Achieved Weights</u></b>																
<b><u>% Total Marks</u></b>																
<b>AO1 weight</b>	0.00	9.07	3.65	0.00	0.00	0.00	2.58	3.29	0.00	0.00	0.00	0.00	0.00	0.00	11.35	<b>61.55</b>
<b>AO2 weight</b>	1.78	0.00	0.00	1.67	2.01	2.70	0.00	0.00	2.92	2.89	2.16	1.81	2.86	6.15	0.00	<b>38.45</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

**Table 32. The achieved weightings of questions and their corresponding assessment objectives for BLY1H in summer 2011 (N = 42,219).**

<b>BLY1H</b>	<b>TOTAL</b>	<b>1a</b>	<b>1bi</b>	<b>1bii</b>	<b>2a</b>	<b>2b</b>	<b>2c</b>	<b>2d</b>	<b>2e</b>	<b>2f</b>	<b>3</b>
<b>Mean</b>	27.03	1.83	1.46	0.88	1.42	0.65	0.63	0.79	0.72	1.59	2.54
<b>SD</b>	6.35	0.39	0.65	0.76	0.67	0.48	0.48	0.41	0.45	0.62	1.35
<b>R item:total</b>		0.19	0.37	0.39	0.30	0.31	0.36	0.20	0.41	0.33	0.68
<b>Ach Weight</b>		1.15	3.74	4.66	3.16	2.34	2.78	1.27	2.94	3.25	14.38
<b>Int Weight</b>		4.44	4.44	4.44	4.44	2.22	2.22	2.22	2.22	4.44	8.89
<b>Max</b>	45.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	2.00	4.00
<b><u>Intended Weights % Total Marks</u></b>											
<b>AO1 % of marks</b>		100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
<b>AO2 % of marks</b>		0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>											
<b>AO1 weight</b>		1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.38
<b>AO2 weight</b>		0.00	3.74	4.66	3.16	2.34	2.78	1.27	2.94	3.25	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY1H (cont.)</b>	<b>4a</b>	<b>4b</b>	<b>5a</b>	<b>5bi</b>	<b>5bii</b>	<b>5biii</b>	<b>6</b>	<b>7a</b>	<b>7b</b>	<b>8a</b>	<b>8b</b>	
<b>Mean</b>	0.84	2.43	1.06	0.88	1.11	0.95	1.40	1.59	0.62	1.16	2.51	
<b>SD</b>	0.76	0.68	0.71	0.58	0.66	0.63	1.18	0.64	0.72	0.87	1.19	
<b>R item:total</b>	0.50	0.29	0.54	0.33	0.20	0.28	0.60	0.51	0.46	0.58	0.40	
<b>Ach Weight</b>	6.07	3.11	6.11	3.05	2.09	2.75	11.25	5.15	5.27	7.94	7.55	
<b>Int Weight</b>	4.44	6.67	4.44	4.44	4.44	4.44	8.89	4.44	4.44	4.44	8.89	
<b>Max</b>	2.00	3.00	2.00	2.00	2.00	2.00	4.00	2.00	2.00	2.00	4.00	
<b><u>Intended Weights % Total Marks</u></b>												<b>Total</b>
<b>AO1 % of marks</b>	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	0.00	<b>42.86</b>
<b>AO2 % of marks</b>	0.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	<b>57.14</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b><u>Achieved Weights % Total Marks</u></b>												
<b>AO1 weight</b>	6.07	3.11	6.11	0.00	0.00	0.00	11.25	5.15	5.27	7.94	0.00	<b>60.43</b>
<b>AO2 weight</b>	0.00	0.00	0.00	3.05	2.09	2.75	0.00	0.00	0.00	0.00	7.55	<b>39.57</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

**Table 33. The achieved weightings of questions and their corresponding assessment objectives for BLY2F in summer 2011 (N = 47,298).**

<b>BLY2F</b>	<b>TOTAL</b>	<b>1ai</b>	<b>1aii</b>	<b>1bi</b>	<b>1bii</b>	<b>1c</b>	<b>2a</b>	<b>2b</b>	<b>3a</b>	<b>3b</b>	<b>3c</b>
<b>Mean</b>	29.50	0.54	0.19	1.55	0.61	1.59	0.70	1.28	0.88	0.89	0.92
<b>SD</b>	5.22	0.50	0.39	0.66	0.49	0.57	0.46	0.58	0.33	0.31	0.27
<b>R item:total</b>		0.12	0.20	0.34	0.46	0.45	0.30	0.31	0.34	0.32	0.34
<b>Ach Weight</b>		1.13	1.50	4.39	4.30	4.89	2.65	3.42	2.14	1.90	1.76
<b>Int Weight</b>		2.22	2.22	4.44	2.22	4.44	2.22	4.44	2.22	2.22	2.22
<b>Max</b>	44.00	1.00	1.00	2.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00
<b><u>Intended Weights % Total Marks</u></b>											
<b>AO1 % of marks</b>		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO2 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>											
<b>AO1 weight</b>		1.13	1.50	4.39	4.30	4.89	2.65	3.42	2.14	1.90	1.76
<b>AO2 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY2F (cont.)</b>	<b>4ai</b>	<b>4aii</b>	<b>4bi</b>	<b>4bii</b>	<b>5ai</b>	<b>5aii</b>	<b>5bi</b>	<b>5bii</b>	<b>5c</b>	<b>6a</b>	<b>6b</b>	<b>6c</b>
<b>Mean</b>	0.55	0.79	1.69	1.94	0.91	0.84	0.75	0.42	0.98	0.91	1.84	0.77
<b>SD</b>	0.50	0.41	0.49	0.26	0.29	0.37	0.43	0.49	0.15	0.28	0.50	0.70
<b>R item:total</b>	0.28	0.33	0.33	0.18	0.30	0.27	0.24	0.32	0.11	0.23	0.30	0.29
<b>Ach Weight</b>	2.72	2.56	3.10	0.88	1.66	1.88	1.97	3.01	0.30	1.24	2.89	3.97
<b>Int Weight</b>	2.22	2.22	4.44	4.44	2.22	2.22	2.22	2.22	2.22	2.22	4.44	4.44
<b>Max</b>	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00
<b><u>Intended Weights % Total Marks</u></b>												
<b>AO1 % of marks</b>	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 % of marks</b>	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>												
<b>AO1 weight</b>	2.72	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>AO2 weight</b>	0.00	0.00	3.10	0.88	1.66	1.88	1.97	3.01	0.30	1.24	2.89	3.97
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY2F (cont.)</b>	<b>7a</b>	<b>7b</b>	<b>7c</b>	<b>8a</b>	<b>8b</b>	<b>8c</b>	<b>8d</b>	<b>8ei</b>	<b>8eii</b>	<b>9a</b>	<b>9b</b>	
<b>Mean</b>	0.78	0.62	1.21	0.37	0.74	1.07	0.92	0.36	0.52	0.83	0.55	
<b>SD</b>	0.42	0.49	0.80	0.48	0.44	0.81	0.69	0.48	0.50	0.80	0.50	
<b>R item:total</b>	0.29	0.32	0.52	0.18	0.25	0.38	0.31	0.50	0.37	0.48	0.32	
<b>Ach Weight</b>	2.34	2.94	8.05	1.67	2.13	5.96	4.07	4.62	3.50	7.45	3.04	
<b>Int Weight</b>	2.22	2.22	4.44	2.22	2.22	4.44	4.44	2.22	2.22	6.67	2.22	
<b>Max</b>	1.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	1.00	3.00	1.00	
<b><u>Intended Weights % Total Marks</u></b>												<b>Total</b>
<b>AO1 % of marks</b>	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00	<b>48.48</b>
<b>AO2 % of marks</b>	100.00	0.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	<b>51.52</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b><u>Achieved Weights % Total Marks</u></b>												
<b>AO1 weight</b>	0.00	2.94	0.00	0.00	0.00	0.00	0.00	4.62	3.50	7.45	0.00	<b>51.85</b>
<b>AO2 weight</b>	2.34	0.00	8.05	1.67	2.13	5.96	4.07	0.00	0.00	0.00	3.04	<b>48.15</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

**Table 34. The achieved weightings of questions and their corresponding assessment objectives for BLY2H in summer 2011 (N = 82,596).**

BLY2H	TOTAL	1a	1b	2	3a	3b	3c	3d	3ei	3eii	4ai	4aii	4b	5ai
Mean	22.15	1.80	0.74	2.32	0.47	0.89	1.44	1.20	0.90	0.83	0.53	0.47	1.09	0.29
SD	6.83	0.97	0.44	0.82	0.50	0.31	0.70	0.68	0.30	0.37	0.50	0.50	0.77	0.45
R item:total		0.55	0.24	0.46	0.25	0.23	0.37	0.30	0.39	0.36	0.32	0.46	0.55	0.37
Ach Weight		7.78	1.54	5.55	1.80	1.04	3.79	2.98	1.70	1.97	2.37	3.33	6.20	2.48
Int Weight		6.67	2.22	6.67	2.22	2.22	4.44	4.44	2.22	2.22	2.22	2.22	4.44	2.22
Max	43.00	3.00	1.00	3.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00	2.00	1.00
<b><u>Intended Weights</u></b>														
<b><u>% Total Marks</u></b>														
AO1 % of marks		100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	0.00
AO2 % of marks		0.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00
AO3 % of marks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights</u></b>														
<b><u>% Total Marks</u></b>														
AO1 weight		7.78	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.97	2.37	3.33	6.20	0.00
AO2 weight		0.00	1.54	5.55	1.80	1.04	3.79	2.98	0.00	0.00	0.00	0.00	0.00	2.48
AO3 weight		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY2H (cont.)</b>	<b>5aii</b>	<b>5b</b>	<b>5c</b>	<b>6a</b>	<b>6bi</b>	<b>6bii</b>	<b>6c</b>	<b>7ai</b>	<b>7aii</b>	<b>7b</b>	<b>7ci</b>	<b>7cii</b>	<b>8a</b>	<b>8b</b>	
<b>Mean</b>	0.48	0.66	1.36	0.64	1.72	0.17	0.27	0.43	0.34	0.78	0.47	0.50	0.95	0.38	
<b>SD</b>	0.69	0.51	0.73	0.48	0.94	0.38	0.45	0.49	0.58	0.75	0.50	0.70	0.99	0.65	
<b>R item:total</b>	0.53	0.34	0.41	0.34	0.46	0.29	0.32	0.45	0.42	0.54	0.47	0.53	0.46	0.47	
<b>Ach Weight</b>	5.34	2.56	4.41	2.41	6.25	1.57	2.09	3.29	3.57	5.96	3.41	5.49	6.65	4.46	
<b>Int Weight</b>	4.44	4.44	4.44	2.22	6.67	2.22	2.22	2.22	4.44	4.44	2.22	4.44	4.44	6.67	
<b>Max</b>	2.00	2.00	2.00	1.00	3.00	1.00	1.00	1.00	2.00	2.00	1.00	2.00	2.00	3.00	
<b><u>Intended Weights</u></b>															
<b><u>% Total Marks</u></b>															<b>Total</b>
<b>AO1 % of marks</b>	100.00	0.00	50.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	50.00	0.00	33.33	<b>56.79</b>
<b>AO2 % of marks</b>	0.00	100.00	50.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	100.00	66.67	<b>43.21</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b><u>Achieved Weights</u></b>															
<b><u>% Total Marks</u></b>															
<b>AO1 weight</b>	5.34	0.00	2.21	2.41	0.00	1.57	2.09	3.29	3.57	5.96	3.41	2.75	0.00	1.49	<b>57.44</b>
<b>AO2 weight</b>	0.00	2.56	2.21	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	2.75	6.65	2.97	<b>42.56</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

**Table 35. The achieved weightings of questions and their corresponding assessment objectives for BLY3F in summer 2011 (N = 5,103).**

<b>BLY3F</b>	<b>TOTAL</b>	<b>1</b>	<b>2a</b>	<b>2bi</b>	<b>2bii</b>	<b>2biii</b>	<b>2biv</b>	<b>2c</b>	<b>3ai</b>	<b>3aii</b>	<b>3bi</b>	<b>3bii</b>	<b>3c</b>
<b>Mean</b>	27.54	2.50	0.88	0.97	0.71	0.25	0.62	0.60	1.90	0.82	1.44	0.76	0.45
<b>SD</b>	5.40	1.35	0.33	0.17	0.45	0.43	0.49	0.49	0.36	0.38	0.56	0.43	0.63
<b>R item:total</b>	1.00	0.58	0.31	0.14	0.26	0.35	0.27	0.37	0.24	0.26	0.33	0.22	0.44
<b>Ach Weight</b>		14.45	1.90	0.46	2.17	2.77	2.39	3.31	1.65	1.84	3.45	1.75	5.12
<b>Int Weight</b>		8.89	2.22	2.22	2.22	2.22	2.22	2.22	4.44	2.22	4.44	2.22	4.44
<b>Max</b>	43.00	4.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	1.00	2.00
<b><u>Intended Weights % Total Marks</u></b>													
<b>AO1 % of marks</b>		100.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
<b>AO2 % of marks</b>		0.00	0.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>													
<b>AO1 weight</b>		14.45	1.90	0.00	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00	5.12
<b>AO2 weight</b>		0.00	0.00	0.46	2.17	2.77	2.39	0.00	1.65	1.84	3.45	1.75	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY3F (cont.)</b>	<b>4ai</b>	<b>4aii</b>	<b>4bi</b>	<b>4bii</b>	<b>4biii</b>	<b>4c</b>	<b>5a</b>	<b>5bi</b>	<b>5bii</b>	<b>5biii</b>	<b>5biv</b>	<b>5c</b>
<b>Mean</b>	0.59	0.80	0.95	0.91	0.51	0.75	0.66	0.94	0.96	0.57	0.95	0.41
<b>SD</b>	0.49	0.40	0.21	0.28	0.50	0.43	0.47	0.24	0.20	0.49	0.22	0.49
<b>R item:total</b>	0.31	0.29	0.22	0.22	0.40	0.32	0.42	0.15	0.15	0.34	0.21	0.25
<b>Ach Weight</b>	2.82	2.15	0.86	1.15	3.75	2.54	3.67	0.68	0.54	3.12	0.82	2.32
<b>Int Weight</b>	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
<b>Max</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b><u>Intended Weights % Total Marks</u></b>												
<b>AO1 % of marks</b>	100.00	100.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00
<b>AO2 % of marks</b>	0.00	0.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	0.00
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights % Total Marks</u></b>												
<b>AO1 weight</b>	2.82	2.15	0.00	1.15	3.75	2.54	0.00	0.00	0.00	0.00	0.00	2.32
<b>AO2 weight</b>	0.00	0.00	0.86	0.00	0.00	0.00	3.67	0.68	0.54	3.12	0.82	0.00
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY3F (cont.)</b>	<b>6a</b>	<b>6bi</b>	<b>6bii</b>	<b>6c</b>	<b>6di</b>	<b>6dii</b>	<b>7ai</b>	<b>7aii</b>	<b>7bi</b>	<b>7bii</b>	<b>7c</b>	
<b>Mean</b>	0.83	0.49	0.46	0.34	0.74	1.15	0.55	1.72	0.01	0.06	0.29	
<b>SD</b>	0.37	0.50	0.50	0.47	0.69	0.63	0.50	0.68	0.08	0.23	0.49	
<b>R item:total</b>	0.30	0.35	0.37	0.20	0.40	0.39	0.48	0.39	0.10	0.25	0.39	
<b>Ach Weight</b>	2.05	3.26	3.44	1.80	5.18	4.57	4.40	4.90	0.15	1.05	3.54	
<b>Int Weight</b>	2.22	2.22	2.22	2.22	4.44	4.44	2.22	4.44	2.22	2.22	4.44	
<b>Max</b>	1.00	1.00	1.00	1.00	2.00	2.00	1.00	2.00	1.00	1.00	2.00	
<b><u>Intended Weights % Total Marks</u></b>												<b>Total</b>
<b>AO1 % of marks</b>	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	50.00	<b>38.57</b>
<b>AO2 % of marks</b>	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	50.00	<b>61.43</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b><u>Achieved Weights % Total Marks</u></b>												
<b>AO1 weight</b>	0.00	0.00	0.00	0.00	5.18	4.57	4.40	0.00	0.00	0.00	1.77	<b>55.42</b>
<b>AO2 weight</b>	2.05	3.26	3.44	1.80	0.00	0.00	0.00	4.90	0.15	1.05	1.77	<b>44.58</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

**Table 36. The achieved weightings of questions and their corresponding assessment objectives for BLY3H in summer 2011 (N = 58,613).**

<b>BLY3H</b>	<b>TOTAL</b>	<b>1ai</b>	<b>1aii</b>	<b>1bi</b>	<b>1bii</b>	<b>1ci</b>	<b>1cii</b>	<b>2a</b>	<b>2bi</b>	<b>2bii</b>	<b>2c</b>	<b>2di</b>	<b>2dii</b>	<b>3ai</b>
<b>Mean</b>	26.30	1.00	0.40	0.92	0.67	0.85	0.45	0.95	0.81	0.84	0.65	1.36	1.55	0.90
<b>SD</b>	6.15	0.58	0.49	0.27	0.47	0.35	0.50	0.22	0.39	0.36	0.48	0.62	0.53	0.30
<b>R item:total</b>		0.37	0.34	0.22	0.24	0.19	0.26	0.20	0.39	0.37	0.43	0.36	0.29	0.34
<b>Ach Weight</b>		3.51	2.70	0.98	1.86	1.10	2.09	0.69	2.45	2.20	3.34	3.70	2.46	1.67
<b>Int Weight</b>		4.44	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	4.44	4.44	2.22
<b>Max</b>	43.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00
<b><u>Intended Weights</u></b>														
<b><u>% Total Marks</u></b>														
<b>AO1 % of marks</b>		100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00
<b>AO2 % of marks</b>		0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00
<b>AO3 % of marks</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Achieved Weights</u></b>														
<b><u>% Total Marks</u></b>														
<b>AO1 weight</b>		3.51	2.70	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70	2.46	1.67
<b>AO2 weight</b>		0.00	0.00	0.00	1.86	1.10	2.09	0.69	2.45	2.20	3.34	0.00	0.00	0.00
<b>AO3 weight</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>BLY3H (cont.)</b>	<b>3aii</b>	<b>3bi</b>	<b>3bii</b>	<b>3c</b>	<b>4a</b>	<b>4b</b>	<b>5</b>	<b>6a</b>	<b>6bi</b>	<b>6bii</b>	<b>6c</b>	<b>6di</b>	<b>6dii</b>	<b>6diii</b>	
<b>Mean</b>	1.94	0.12	0.35	0.84	0.93	2.28	3.42	0.90	0.30	0.17	1.44	0.97	1.29	0.02	
<b>SD</b>	0.33	0.32	0.48	0.66	0.90	1.17	1.35	0.30	0.46	0.39	0.79	0.56	1.01	0.14	
<b>R item:total</b>	0.21	0.31	0.42	0.43	0.56	0.64	0.67	0.28	0.32	0.25	0.51	0.45	0.55	0.16	
<b>Ach Weight</b>	1.13	1.59	3.28	4.59	8.26	12.07	14.84	1.33	2.35	1.62	6.59	4.08	9.13	0.38	
<b>Int Weight</b>	4.44	2.22	2.22	4.44	4.44	8.89	11.11	2.22	2.22	4.44	4.44	4.44	6.67	2.22	
<b>Max</b>	2.00	1.00	1.00	2.00	2.00	4.00	5.00	1.00	1.00	2.00	2.00	2.00	3.00	1.00	
<b><u>Intended Weights</u></b>															
<b><u>% Total Marks</u></b>															<b>Total</b>
<b>AO1 % of marks</b>	0.00	0.00	0.00	50.00	100.00	100.00	100.00	100.00	0.00	50.00	0.00	0.00	0.00	0.00	<b>40.74</b>
<b>AO2 % of marks</b>	100.00	100.00	100.00	50.00	0.00	0.00	0.00	0.00	100.00	50.00	100.00	100.00	100.00	100.00	<b>59.26</b>
<b>AO3 % of marks</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b><u>Achieved Weights</u></b>															
<b><u>% Total Marks</u></b>															
<b>AO1 weight</b>	0.00	0.00	0.00	2.29	8.26	12.07	14.84	1.33	0.00	0.81	0.00	0.00	0.00	0.00	<b>54.62</b>
<b>AO2 weight</b>	1.13	1.59	3.28	2.29	0.00	0.00	0.00	0.00	2.35	0.81	6.59	4.08	9.13	0.38	<b>45.38</b>
<b>AO3 weight</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>

## General Discussion & Conclusions

The primary purpose of this study was to demonstrate a method for investigating and reporting on the achieved weighting of assessment objectives as a facet of validity; the secondary purpose was to identify some of the kinds of problems that occur with respect to achieved weightings of assessment objectives, and to consider the possible causes and solutions that may be fed back into the specification design and examination paper-writing processes. The unit-subject analyses for the GCSE and A-level suites and the question-unit analyses for the six individual specifications constitute the demonstration of the method. The commentaries on these analyses provide some examples of where the achieved weights of the assessment objectives have deviated considerably from those intended and, where possible, offer some insight into possible underlying causes. Most of the issues identified in the commentaries, and summarised below, fall under the broad heading of assessment structures.

Having the assessment objectives distributed evenly across units poses less risk to the overall weighting of the assessment objectives because underweighting on one unit is balanced out by overweighting on another. The underweighting of AS units and the overweighting of A2 units within A-level is common and thus the distribution of the assessment objectives between the two levels could have a large impact on their overall achieved weights. Nonetheless, although this report has focussed on achieved weightings of assessment objectives, assessment validity is a much broader matter than this. How content is organised into units of assessment – particularly in qualifications designed to be taken modularly over the duration of a course of study – should also be informed by concerns such as the coherence of the content and how it relates to programmes of teaching and learning, the mode of assessment most appropriate for the assessment objectives, and so on.

Having practical-type units with very different assessment objectives to the written paper units poses a greater risk of overall imbalance, as performance on these units tends to be negatively skewed. This is a common issue in subjects with performance elements, such as Dance, Music, or PE, especially at A-level, where many of the candidates who choose to take them are very accomplished in the practical domain. There is a possible tension between spreading the candidates out more effectively and keeping the demand of the assessment appropriate to the level of the qualification concerned. It is also possible that practical assessment objectives will not correlate strongly with more academic ones and, if their intended weight is already relatively low, they will have relatively little influence on the total score. If the practical element contains legitimate assessment objectives and constitutes an appropriate proportion of the assessment, the poor correlation and resulting low weighting may be something that we must live with.

Coursework contained in the AS part of A-level is more likely to achieve a weight comparable to that of its written unit counterpart than is a coursework unit contained in the A2 part of A-level. This could indicate that coursework in the A2 needs to be more challenging than it is generally. Again, as with practical units, when we use performance criteria (even relatively flexibly, as is the case with GCSEs and A-levels), and candidates meet or exceed those criteria, they have demonstrably earned those marks or grades. What is perverse is that, at subject level, the achieved weightings of the units leads to the best candidates being differentiated largely on the basis of the written paper units. The alternative – to allow greater discrimination at the top of the scale for the coursework or practical units – might result in excellence in these domains overcompensating for weakness in others and under-recognition of candidates who meet, but do not necessarily exceed, the criteria for the highest grades. In that sense, the criteria place a cap on the weighting of the coursework or practical, which may have the desirable effect of promoting and recognising more balanced performances.

The number of marks and/or separate questions available for assessment objectives affects the volatility of the achieved weighting of those assessment objectives as well as the precision with which they can be met, an example being A-level maths with a paper on which only 2 marks out of 75 are allocated to some areas of content. This is essentially a matter of reliability: the longer and narrower in scope a test is, the more reliable it tends to be. Reliability is a necessary, but not sufficient, condition for validity so, if we cannot measure an assessment objective reliably, we cannot claim that our assessment of it is valid. Although increasing the total marks used to assess multiple assessment objectives should improve overall reliability, a test can only be so long, so relatively less reliable measurement of more minor assessment objectives is, to an extent, inevitable.

Controlled assessment at GCSE showed a small but significant tendency to be overweighted compared with written paper units, which is in contrast to the tendency in A-level for coursework units to be underweighted. The key difference between them could be that the timed element of controlled assessment allows greater heterogeneity of performance. It is debatable as to whether this is as valid as allowing a candidate to demonstrate a more polished performance but, in terms of discriminating between candidates for assessment purposes, it appears to be more effective.

There can be exceptions when certain Assessment Objectives might not be able to meet their intended weighting because they are uncorrelated with the score on the main construct(s). Quality of Written Communication (QWC) / Spelling, Punctuation, and Grammar (SPAG) is such an example and it is arguable that the purpose of something like QWC or SPAG should not be to discriminate between candidates but to encourage them to write carefully. In this case, it might not even be desirable to achieve the intended weighting of these particular assessment objectives, let alone possible.

The analyses and reports exemplified here are the basis for screening specifications and the evidence they contain is best considered in the context of other information. Some of the structural issues are the consequence of the generic assessment models we use, such as having AS and A2 levels within the A-level, tiered papers at GCSE, or the (partially nonlinear) transformation of raw marks on to the uniform mark scale; others stem from the mode of assessment chosen to measure particular assessment objectives. These choices can impact on validity in ways that are not captured by the reporting of achieved weightings, so the latter must be considered within a wider context. Structural changes would normally be dealt with when specifications are redeveloped and with a view to changing qualification models, or subject group models, rather than individual specifications.

In some cases, screening may identify question papers that are not functioning as intended. There are essentially two different – though not necessarily exclusive – ways in which this might be dealt with. In one case, further analyses of how candidates have responded to items and how those items have been marked by examiners could inform the setting and marking of future questions and question papers. Of course, there are interdependencies between questions within a paper and between units within a specification – weightings are relative, so every increase has an equal and opposite decrease – therefore the results could be unpredictable. It needs to be demonstrated that this kind of feedback on the performance of the assessment can be translated into measurable improvements in the performance of future assessments. The second approach would include post hoc technical solutions to rebalance the weightings of assessment objectives for candidates who have taken a particular paper. For example, rescaling the raw marks for individual questions to achieve the intended weighting of assessment objectives on the paper might change the rank order of candidates to better reflect their performances against the assessment objectives. However, many candidates prepare for exams and plan their time in them based on the mark allocations for questions. Re-weighting them would undermine that; therefore, the re-weighted rank order would not necessarily be the same as that achieved had the candidates sat the paper with the rescaled raw mark totals in the first place. Furthermore, reweighting of assessment objectives is likely to wash back on teaching and

learning, thus the solution to one question paper problem may become the cause of the next. Again, this serves to highlight the fact that the design of an assessment instrument is likely to be one of optimisation, containing various tradeoffs and compromises between different validity considerations, one of which is the weighting of assessment objectives.

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## **References**

Stockford, I. (2012). *Question Paper Functioning Reports: A note on the intended weight of units within tiered GCSE subjects*. Manchester: Centre for Education Research and Policy.

## Appendix 1 – GCSE: The intended and achieved weights of assessment objectives by unit

Table 37. GCSE: The intended and achieved weights of assessment objectives by unit.

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Additional Applied Science	full	4863	0	12820	AASC1	P	20	27.0	12.0	8.0	0.0		16.2	10.8	0.0	
				12820	AASC2F	W	40	25.6	23.0	12.0	5.0	14.7	7.7	3.2		
				12820	AASC3	P	40	47.4	0.0	10.0	30.0	0.0	11.9	35.6		
Additional Applied Science	full	4863	1	2018	AASC1	P	20	24.3	12.0	8.0	0.0		14.6	9.7	0.0	
				2018	AASC2H	W	40	27.1	23.0	12.0	5.0	15.6	8.1	3.4		
				2018	AASC3	P	40	48.6	0.0	10.0	30.0	0.0	12.2	36.5		
Applications of Mathematics Pilot	full	9372	0	364	93701F	W	50	45.3	22.5	17.5	10.0		20.4	15.9	9.1	
				364	93702F	W	50	54.7	22.5	17.5	10.0	24.6	19.1	10.9		
Applications of Mathematics Pilot	full	9372	3	461	93701H	W	50	46.0	22.5	17.5	10.0		20.7	16.1	9.2	
				461	93702H	W	50	54.0	22.5	17.5	10.0	24.3	18.9	10.8		
Applied Art & Design	full	4207	0	1288	42071	CA	60	58.9	15.0	15.0	15.0	15.0	14.7	14.7	14.7	14.7
				1288	42072	EA	40	41.1	10.0	10.0	10.0	10.0	10.3	10.3	10.3	10.3
Applied Business	double	4136	0	1249	413001	W	20	17.1	6.0	7.0	7.0		5.1	6.0	6.0	
				1249	413004	CA	30	30.3	9.0	10.5	10.5	9.1	10.6	10.6		
				1249	413005	CA	30	33.2	9.0	10.5	10.5	9.9	11.6	11.6		
				1249	413007	W	20	19.5	6.0	7.0	7.0	5.8	6.8	6.8		
Applied Business	double	4136	1	217	413001	W	20	17.4	6.0	7.0	7.0		5.2	6.1	6.1	
				217	413004	CA	30	32.3	9.0	10.5	10.5	9.7	11.3	11.3		
				217	413006	CA	30	31.4	9.0	10.5	10.5	9.4	11.0	11.0		
				217	413007	W	20	19.0	6.0	7.0	7.0	5.7	6.6	6.6		
Applied Business	double	4136	2	334	413001	W	20	15.4	6.0	7.0	7.0		4.6	5.4	5.4	
				334	413005	CA	30	34.5	9.0	10.5	10.5	10.3	12.1	12.1		
				334	413006	CA	30	33.0	9.0	10.5	10.5	9.9	11.5	11.5		
				334	413007	W	20	17.2	6.0	7.0	7.0	5.1	6.0	6.0		

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Applied Science	double	4861	0	5365	APSC1	P	10	11.6	6.0	4.0	0.0		7.0	4.6	0.0	
		4861	0	5365	APSC2F	W	35	24.7	20.0	10.0	5.0		14.1	7.1	3.5	
		4861	0	5365	APSC3	P	27.5	28.9	2.0	8.0	17.5		2.1	8.4	18.4	
		4861	0	5365	APSC4	P	27.5	34.8	2.0	8.0	17.5		2.5	10.1	22.1	
Applied Science	double	4861	1	495	APSC1	P	10	11.3	6.0	4.0	0.0		6.8	4.5	0.0	
		4861	1	495	APSC2H	W	35	25.8	20.0	10.0	5.0		14.8	7.4	3.7	
		4861	1	495	APSC3	P	27.5	28.8	2.0	8.0	17.5		2.1	8.4	18.3	
		4861	1	495	APSC4	P	27.5	34.0	2.0	8.0	17.5		2.5	9.9	21.7	
Art & Design	full	4201	0	50099	42011	CA	60	58.1	15.0	15.0	15.0	15.0	14.5	14.5	14.5	14.5
		4201	0	50099	42012	EA	40	41.9	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5
Art & Design	short	4211	0	2817	42111	CA	60	58.7	15.0	15.0	15.0	15.0	14.7	14.7	14.7	14.7
		4211	0	2817	42112	EA	40	41.3	10.0	10.0	10.0	10.0	10.3	10.3	10.3	10.3
Bengali	short	4636	0	104	46351F	W	50	46.0	50.0	0.0			46.0	0.0		
		4636	0	104	46353	EAS	50	54.0	0.0	50.0			0.0	54.0		
Bengali	short	4636	1	138	46351H	W	50	60.3	50.0	0.0			60.3	0.0		
		4636	1	138	46353	EAS	50	39.7	0.0	50.0			0.0	39.7		
Bengali	full	4638	0	214	46351F	W	25	16.6	25.0	0.0	0.0	0.0	16.6	0.0	0.0	0.0
		4638	0	214	46352F	W	25	22.3	0.0	25.0	0.0	0.0	0.0	22.3	0.0	0.0
		4638	0	214	46353	EAS	25	21.9	0.0	0.0	25.0	0.0	0.0	0.0	21.9	0.0
		4638	0	214	46354	W	25	39.2	0.0	0.0	0.0	25.0	0.0	0.0	0.0	39.2
Bengali	full	4638	2	102	46351H	W	25	24.7	25.0	0.0	0.0	0.0	24.7	0.0	0.0	0.0
		4638	2	102	46352F	W	25	20.6	0.0	25.0	0.0	0.0	0.0	20.6	0.0	0.0
		4638	2	102	46353	EAS	25	21.1	0.0	0.0	25.0	0.0	0.0	0.0	21.1	0.0
		4638	2	102	46354	W	25	33.6	0.0	0.0	0.0	25.0	0.0	0.0	0.0	33.6
Bengali	full	4638	3	672	46351H	W	25	17.9	25.0	0.0	0.0	0.0	17.9	0.0	0.0	0.0
		4638	3	672	46352H	W	25	31.9	0.0	25.0	0.0	0.0	0.0	31.9	0.0	0.0
		4638	3	672	46353	EAS	25	17.1	0.0	0.0	25.0	0.0	0.0	0.0	17.1	0.0

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight				
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	
			4638	3	672	46354	W	25	33.1	0.0	0.0	0.0	25.0	0.0	0.0	0.0	33.1
Business & Communication Systems	full	4134	0	15207	413008	W	40	40.6	12.0	14.0	14.0		12.2	14.2	14.2		
		4134	0	15207	413009	PE	35	33.8	10.5	12.3	12.3		10.1	11.8	11.8		
		4134	0	15207	413010	CA	25	25.6	7.5	8.8	8.8		7.7	9.0	9.0		
Business Studies	short	4131	0	534	413013	W	50	52.1	15.0	17.5	17.5		15.6	18.2	18.2		
		4131	0	534	413014	CA	50	47.9	15.0	17.5	17.5		14.4	16.8	16.8		
Business Studies	full	4133	0	20754	413001	W	40	37.5	12.0	14.0	14.0		11.2	13.1	13.1		
		4133	0	20754	413002	W	35	38.0	10.5	12.3	12.3		11.4	13.3	13.3		
		4133	0	20754	413003	CA	25	24.5	7.5	8.8	8.8		7.4	8.6	8.6		
Chinese (Mandarin)	full	4673	2	187	46701H	W	20	23.3	20.0	0.0	0.0	0.0	23.3	0.0	0.0	0.0	
		4673	2	187	46702H	W	20	24.2	0.0	0.0	20.0	0.0	0.0	0.0	24.2	0.0	
		4673	2	187	46703	CA	30	22.3	0.0	30.0	0.0	0.0	0.0	22.3	0.0	0.0	
		4673	2	187	46704	CAE	30	30.2	0.0	0.0	0.0	30.0	0.0	0.0	0.0	30.2	
Citizenship Studies	short	4106	0	17737	41051	W	40	32.1	10.0	0.0	30.0		8.0	0.0	24.1		
		4106	0	17737	41052	CA	60	67.9	20.0	40.0	0.0		22.6	45.2	0.0		
Citizenship Studies	full	4107	0	2459	41051	W	20	14.8	5.0	0.0	15.0		3.7	0.0	11.1		
		4107	0	2459	41052	CA	30	31.5	10.0	20.0	0.0		10.5	21.0	0.0		
		4107	0	2459	41053	W	20	19.7	5.0	0.0	15.0		4.9	0.0	14.8		
		4107	0	2459	41054	CA	30	33.9	10.0	20.0	0.0		11.3	22.6	0.0		
Classical Civilisation	short	4021	1	187	40201H	W	50	57.0	16.3	16.3	17.5		18.5	18.5	19.9		
		4021	1	187	40204	CA	50	43.0	12.5	12.5	25.0		10.8	10.8	21.5		
Classical Civilisation	full	4022	0	122	40201F	W	25	22.5	8.1	8.1	8.8		7.3	7.3	7.9		
		4022	0	122	40202F	W	25	30.8	8.1	8.1	8.8		10.0	10.0	10.8		
		4022	0	122	40203F	W	25	28.4	8.1	8.1	8.8		9.2	9.2	9.9		
		4022	0	122	40204	CA	25	18.3	6.3	6.3	12.5		4.6	4.6	9.2		
Classical Civilisation	full	4022	6	1063	40201H	W	25	23.0	8.1	8.1	8.8		7.5	7.5	8.0		
		4022	6	1063	40202H	W	25	27.8	8.1	8.1	8.8		9.0	9.0	9.7		

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
		4022	6	1063	40203H	W	25	28.6	8.1	8.1	8.8		9.3	9.3	10.0	
		4022	6	1063	40204	CA	25	20.6	6.3	6.3	12.5		5.1	5.1	10.3	
D&T	short	4576	0	3998	45751	W	40	37.5	15.0	15.0	10.0		14.1	14.1	9.4	
		4576	0	3998	45752	CA	60	62.5	10.0	40.0	10.0		10.4	41.7	10.4	
D&T: Electronic Products	full	4542	0	8583	45401	W	40	40.2	15.0	15.0	10.0		15.1	15.1	10.1	
		4542	0	8583	45402	CA	60	59.8	10.0	40.0	10.0		10.0	39.8	10.0	
D&T: Food Technology	full	4547	0	41752	45451	W	40	38.9	15.0	15.0	10.0		14.6	14.6	9.7	
		4547	0	41752	45452	CA	60	61.1	10.0	40.0	10.0		10.2	40.7	10.2	
D&T: Graphic Products	full	4552	0	31953	45501	W	40	38.5	15.0	15.0	10.0		14.4	14.4	9.6	
		4552	0	31953	45502	CA	60	61.5	10.0	40.0	10.0		10.2	41.0	10.2	
D&T: Product Design	full	4557	0	26693	45551	W	40	39.0	15.0	15.0	10.0		14.6	14.6	9.8	
		4557	0	26693	45552	CA	60	61.0	10.0	40.0	10.0		10.2	40.7	10.2	
D&T: Resistant Materials	full	4562	0	41896	45601	W	40	38.1	15.0	15.0	10.0		14.3	14.3	9.5	
		4562	0	41896	45602	CA	60	61.9	10.0	40.0	10.0		10.3	41.3	10.3	
D&T: Systems & Control	full	4567	0	2229	45651	W	40	39.5	15.0	15.0	10.0		14.8	14.8	9.9	
		4567	0	2229	45652	CA	60	60.5	10.0	40.0	10.0		10.1	40.3	10.1	
D&T: Textiles Technology	full	4572	0	27667	45701	W	40	38.7	15.0	15.0	10.0		14.5	14.5	9.7	
		4572	0	27667	45702	CA	60	61.3	10.0	40.0	10.0		10.2	40.8	10.2	
Dance	full	4232	0	13285	42301	W	20	13.9	20.0	0.0	0.0		13.9	0.0	0.0	
		4232	0	13285	42302	EP	20	16.5	7.0	7.0	6.0		5.8	5.8	4.9	
		4232	0	13285	42303	CA	20	23.0	3.0	10.0	7.0		3.4	11.5	8.0	
		4232	0	13285	42304	CA	40	46.6	0.0	28.0	12.0		0.0	32.6	14.0	
Drama	full	4242	0	22964	42401	W	40	48.9	20.0	0.0	20.0		24.4	0.0	24.4	
		4242	0	22964	42402	CA	60	51.1	15.0	45.0	0.0		12.8	38.4	0.0	
Economics	short	4132	0	1111	413011	W	100	100.0	30.0	35.0	35.0		30.0	35.0	35.0	
Economics	full	4135	0	1576	413011	W	50	43.3	15.0	17.5	17.5		13.0	15.2	15.2	
		4135	0	1576	413012	W	50	56.7	15.0	17.5	17.5		17.0	19.8	19.8	

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Electronics	full	4432	0	411	44301	W	75	81.1	33.0	37.5	4.5		35.7	40.5	4.9	
		4432	0	411	44302	CA	25	18.9	4.0	5.0	16.0		3.0	3.8	12.1	
Engineering	full	4852	0	1166	48501	W	40	37.1	20.0	15.0	5.0		18.5	13.9	4.6	
		4852	0	1166	48502	CA	60	62.9	10.0	40.0	10.0		10.5	41.9	10.5	
Engineering	double	4854	0	531	48501	W	20	17.6	10.0	7.5	2.5		8.8	6.6	2.2	
		4854	0	531	48502	CA	30	30.6	5.0	20.0	5.0		5.1	20.4	5.1	
		4854	0	531	48503	W	20	20.9	10.0	7.5	2.5		10.5	7.9	2.6	
		4854	0	531	48504	CA	30	30.9	5.0	20.0	5.0		5.1	20.6	5.1	
Environmental Science	full	4442	0	321	44401F	W	75	78.1	40.0	30.0	5.0		41.7	31.2	5.2	
		4442	0	321	44402	CA	25	21.9	0.0	5.0	20.0		0.0	4.4	17.5	
Environmental Science	full	4442	1	441	44401H	W	75	83.1	40.0	30.0	5.0		44.3	33.2	5.5	
		4442	1	441	44402	CA	25	16.9	0.0	5.0	20.0		0.0	3.4	13.5	
Expressive Arts	full	4262	0	2764	42601	EA	40	39.2	0.0	20.0	20.0	0.0	0.0	19.6	19.6	0.0
		4262	0	2764	42602	CA	60	60.8	10.0	20.0	20.0	10.0	10.1	20.3	20.3	10.1
Fine Art	full	4202	0	28583	42021	CA	60	58.4	15.0	15.0	15.0	15.0	14.6	14.6	14.6	14.6
		4202	0	28583	42022	EA	40	41.6	10.0	10.0	10.0	10.0	10.4	10.4	10.4	10.4
French	short	4657	0	1552	46552F	W	40	24.4			40.0	0.0			24.4	0.0
		4657	0	1552	46554	CAE	60	75.6			0.0	60.0			0.0	75.6
French	short	4657	1	311	46552H	W	40	38.5			40.0	0.0			38.5	0.0
		4657	1	311	46554	CAE	60	61.5			0.0	60.0			0.0	61.5
French	full	4658	0	23432	46551F	W	20	11.3	20.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0
		4658	0	23432	46552F	W	20	10.7	0.0	0.0	20.0	0.0	0.0	0.0	10.7	0.0
		4658	0	23432	46553	CA	30	38.0	0.0	30.0	0.0	0.0	0.0	38.0	0.0	0.0
		4658	0	23432	46554	CAE	30	40.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	40.0
French	full	4658	1	5647	46551F	W	20	7.6	20.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
		4658	1	5647	46552H	W	20	15.8	0.0	0.0	20.0	0.0	0.0	0.0	15.8	0.0
		4658	1	5647	46553	CA	30	36.4	0.0	30.0	0.0	0.0	0.0	36.4	0.0	0.0

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
		4658	1	5647	46554	CAE	30	40.2	0.0	0.0	0.0	30.0	0.0	0.0	0.0	40.2
French	full	4658	2	50064	46551H	W	20	19.5	20.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0
		4658	2	50064	46552H	W	20	20.5	0.0	0.0	20.0	0.0	0.0	0.0	20.5	0.0
		4658	2	50064	46553	CA	30	29.7	0.0	30.0	0.0	0.0	0.0	29.7	0.0	0.0
		4658	2	50064	46554	CAE	30	30.3	0.0	0.0	0.0	30.0	0.0	0.0	0.0	30.3
French	full	4658	3	1105	46551H	W	20	15.2	20.0	0.0	0.0	0.0	15.2	0.0	0.0	0.0
		4658	3	1105	46552F	W	20	8.5	0.0	0.0	20.0	0.0	0.0	0.0	8.5	0.0
		4658	3	1105	46553	CA	30	38.0	0.0	30.0	0.0	0.0	0.0	38.0	0.0	0.0
		4658	3	1105	46554	CAE	30	38.3	0.0	0.0	0.0	30.0	0.0	0.0	0.0	38.3
General Studies	full	4762	0	8068	47601	W	25	20.6	6.3	6.3	6.3	6.3	5.2	5.2	5.2	5.2
		4762	0	8068	47602	OTQ/W	75	79.4	18.8	18.8	18.8	18.8	19.8	19.8	19.8	19.8
Geography A	short	4031	0	454	40303	CA	50	51.3	6.0	14.0	30.0		6.2	14.4	30.8	
		4031	0	454	40304F	W	50	48.7	24.0	16.0	10.0		23.4	15.6	9.7	
Geography A	short	4031	1	333	40303	CA	50	52.7	6.0	14.0	30.0		6.3	14.7	31.6	
		4031	1	333	40304H	W	50	47.3	24.0	16.0	10.0		22.7	15.1	9.5	
Geography A	full	4032	0	17249	40301F	W	37.5	37.7	18.0	12.0	7.5		18.1	12.1	7.5	
		4032	0	17249	40302F	W	37.5	42.6	18.0	12.0	7.5		20.4	13.6	8.5	
		4032	0	17249	40303	CA	25	19.8	3.0	7.0	15.0		2.4	5.5	11.9	
Geography A	full	4032	1	722	40301F	W	37.5	33.7	18.0	12.0	7.5		16.2	10.8	6.7	
		4032	1	722	40302H	W	37.5	39.0	18.0	12.0	7.5		18.7	12.5	7.8	
		4032	1	722	40303	CA	25	27.3	3.0	7.0	15.0		3.3	7.6	16.4	
Geography A	full	4032	2	818	40301H	W	37.5	23.8	18.0	12.0	7.5		11.4	7.6	4.8	
		4032	2	818	40302F	W	37.5	48.2	18.0	12.0	7.5		23.2	15.4	9.6	
		4032	2	818	40303	CA	25	28.0	3.0	7.0	15.0		3.4	7.8	16.8	
Geography A	full	4032	3	47406	40301H	W	37.5	40.2	18.0	12.0	7.5		19.3	12.9	8.0	
		4032	3	47406	40302H	W	37.5	38.5	18.0	12.0	7.5		18.5	12.3	7.7	
		4032	3	47406	40303	CA	25	21.3	3.0	7.0	15.0		2.6	6.0	12.8	

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Geography B	short	4036	0	299	40351F	W	50	43.6	20.0	20.0	10.0		17.5	17.5	8.7	
		4036	0	299	40354	CA	50	56.4	10.0	10.0	30.0		11.3	11.3	33.8	
Geography B	full	4037	0	3629	40351F	W	25	24.2	10.0	10.0	5.0		9.7	9.7	4.8	
		4037	0	3629	40352F	W	25	24.4	5.0	10.0	10.0		4.9	9.7	9.7	
		4037	0	3629	40353F	W	25	26.4	10.0	5.0	10.0		10.6	5.3	10.6	
		4037	0	3629	40354	CA	25	24.9	5.0	5.0	15.0		5.0	5.0	15.0	
Geography B	full	4037	1	149	40351F	W	25	19.7	10.0	10.0	5.0		7.9	7.9	3.9	
		4037	1	149	40352H	W	25	20.0	5.0	10.0	10.0		4.0	8.0	8.0	
		4037	1	149	40353F	W	25	27.8	10.0	5.0	10.0		11.1	5.6	11.1	
		4037	1	149	40354	CA	25	32.5	5.0	5.0	15.0		6.5	6.5	19.5	
Geography B	full	4037	2	326	40351F	W	25	10.5	10.0	10.0	5.0		4.2	4.2	2.1	
		4037	2	326	40352H	W	25	27.0	5.0	10.0	10.0		5.4	10.8	10.8	
		4037	2	326	40353H	W	25	32.0	10.0	5.0	10.0		12.8	6.4	12.8	
		4037	2	326	40354	CA	25	30.5	5.0	5.0	15.0		6.1	6.1	18.3	
Geography B	full	4037	3	180	40351F	W	25	13.7	10.0	10.0	5.0		5.5	5.5	2.7	
		4037	3	180	40352F	W	25	10.7	5.0	10.0	10.0		2.1	4.3	4.3	
		4037	3	180	40353H	W	25	43.3	10.0	5.0	10.0		17.3	8.7	17.3	
		4037	3	180	40354	CA	25	32.2	5.0	5.0	15.0		6.4	6.4	19.3	
Geography B	full	4037	4	215	40351H	W	25	19.4	10.0	10.0	5.0		7.8	7.8	3.9	
		4037	4	215	40352F	W	25	20.2	5.0	10.0	10.0		4.0	8.1	8.1	
		4037	4	215	40353F	W	25	30.2	10.0	5.0	10.0		12.1	6.0	12.1	
		4037	4	215	40354	CA	25	30.2	5.0	5.0	15.0		6.0	6.0	18.1	
Geography B	full	4037	5	149	40351H	W	25	16.2	10.0	10.0	5.0		6.5	6.5	3.2	
		4037	5	149	40352H	W	25	17.3	5.0	10.0	10.0		3.5	6.9	6.9	
		4037	5	149	40353F	W	25	29.1	10.0	5.0	10.0		11.6	5.8	11.6	
		4037	5	149	40354	CA	25	37.4	5.0	5.0	15.0		7.5	7.5	22.5	
Geography B	full	4037	6	8486	40351H	W	25	21.1	10.0	10.0	5.0		8.5	8.5	4.2	

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight				
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	
			4037	6	8486	40352H	W	25	24.1	5.0	10.0	10.0		4.8	9.6	9.6	
			4037	6	8486	40353H	W	25	28.9	10.0	5.0	10.0		11.6	5.8	11.6	
			4037	6	8486	40354	CA	25	25.9	5.0	5.0	15.0		5.2	5.2	15.5	
Geography B	full		4037	7	129	40351H	W	25	27.4	10.0	10.0	5.0		10.9	10.9	5.5	
			4037	7	129	40352F	W	25	13.5	5.0	10.0	10.0		2.7	5.4	5.4	
			4037	7	129	40353H	W	25	32.4	10.0	5.0	10.0		12.9	6.5	12.9	
			4037	7	129	40354	CA	25	26.8	5.0	5.0	15.0		5.4	5.4	16.1	
German	short		4666	0	120	46651F	W	40	33.1	40.0	0.0			33.1	0.0		
			4666	0	120	46653	CA	60	66.9	0.0	60.0			0.0	66.9		
German	short		4667	0	436	46652F	W	40	33.7	40.0	0.0			33.7	0.0		
			4667	0	436	46654	CAE	60	66.3	0.0	60.0			0.0	66.3		
German	full		4668	0	9045	46651F	W	20	14.2	20.0	0.0	0.0	0.0	14.2	0.0	0.0	0.0
			4668	0	9045	46652F	W	20	16.3	0.0	0.0	20.0	0.0	0.0	0.0	16.3	0.0
			4668	0	9045	46653	CA	30	34.9	0.0	30.0	0.0	0.0	0.0	34.9	0.0	0.0
			4668	0	9045	46654	CAE	30	34.6	0.0	0.0	0.0	30.0	0.0	0.0	0.0	34.6
German	full		4668	1	1104	46651F	W	20	8.0	20.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
			4668	1	1104	46652H	W	20	15.1	0.0	0.0	20.0	0.0	0.0	0.0	15.1	0.0
			4668	1	1104	46653	CA	30	34.8	0.0	30.0	0.0	0.0	0.0	34.8	0.0	0.0
			4668	1	1104	46654	CAE	30	42.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	42.0
German	full		4668	2	20377	46651H	W	20	17.1	20.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0
			4668	2	20377	46652H	W	20	18.4	0.0	0.0	20.0	0.0	0.0	0.0	18.4	0.0
			4668	2	20377	46653	CA	30	31.3	0.0	30.0	0.0	0.0	0.0	31.3	0.0	0.0
			4668	2	20377	46654	CAE	30	33.2	0.0	0.0	0.0	30.0	0.0	0.0	0.0	33.2
German	full		4668	3	1112	46651H	W	20	15.4	20.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0
			4668	3	1112	46652F	W	20	11.9	0.0	0.0	20.0	0.0	0.0	0.0	11.9	0.0
			4668	3	1112	46653	CA	30	36.8	0.0	30.0	0.0	0.0	0.0	36.8	0.0	0.0
			4668	3	1112	46654	CAE	30	35.9	0.0	0.0	0.0	30.0	0.0	0.0	0.0	35.9

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Graphic Communication	full	4203	0	3764	42031	CA	60	57.7	15.0	15.0	15.0	15.0	14.4	14.4	14.4	14.4
		4203	0	3764	42032	EA	40	42.3	10.0	10.0	10.0	10.0	10.6	10.6	10.6	10.6
Health & Social Care	full	4822	0	1560	48201	W	40	34.8	12.0	18.0	10.0		10.4	15.7	8.7	
		4822	0	1560	48202	CA	60	65.2	18.0	27.0	15.0		19.6	29.3	16.3	
History A	short	4041	0	289	40403	CA	50	50.5	10.0	10.0	30.0		10.1	10.1	30.3	
		4041	0	289	40404A	W	50	49.5	19.0	21.0	10.0		18.8	20.8	9.9	
History A	full	4042	0	6531	40401A	W	35	34.8	14.0	14.0	7.0		13.9	13.9	7.0	
		4042	0	6531	40402A	W	40	43.8	11.0	11.0	18.0		12.0	12.0	19.7	
		4042	0	6531	40403	CA	25	21.4	5.0	5.0	15.0		4.3	4.3	12.9	
History A	full	4042	1	507	40401A	W	35	35.5	14.0	14.0	7.0		14.2	14.2	7.1	
		4042	1	507	40402B	W	40	43.1	11.0	11.0	18.0		11.8	11.8	19.4	
		4042	1	507	40403	CA	25	21.5	5.0	5.0	15.0		4.3	4.3	12.9	
History A	full	4042	2	554	40401A	W	35	34.0	14.0	14.0	7.0		13.6	13.6	6.8	
		4042	2	554	40402C	W	40	45.4	11.0	11.0	18.0		12.5	12.5	20.4	
		4042	2	554	40403	CA	25	20.6	5.0	5.0	15.0		4.1	4.1	12.4	
History A	full	4042	3	2856	40401A	W	35	35.2	14.0	14.0	7.0		14.1	14.1	7.0	
		4042	3	2856	40402D	W	40	42.0	11.0	11.0	18.0		11.5	11.5	18.9	
		4042	3	2856	40403	CA	25	22.8	5.0	5.0	15.0		4.6	4.6	13.7	
History B	short	4046	0	457	40453	CA	50	41.5	5.0	5.0	40.0		4.2	4.2	33.2	
		4046	0	457	40454	W	50	58.5	25.0	25.0	0.0		29.2	29.2	0.0	
History B	full	4047	0	35720	40451	W	37.5	37.9	15.0	15.0	7.5		15.1	15.1	7.6	
		4047	0	35720	40452	W	37.5	41.4	15.0	15.0	7.5		16.5	16.5	8.3	
		4047	0	35720	40453	CA	25	20.8	2.5	2.5	20.0		2.1	2.1	16.6	
Home Economics: Child Development	full	4582	0	7751	45801	W	40	37.4	20.0	10.0	10.0		18.7	9.3	9.3	
		4582	0	7751	45802	CA	20	21.1	5.0	10.0	5.0		5.3	10.5	5.3	
		4582	0	7751	45803	CA	40	41.5	10.0	20.0	10.0		10.4	20.8	10.4	
Home Economics: Food & Nutrition	full	4587	0	3066	45851	W	40	38.5	20.0	10.0	10.0		19.2	9.6	9.6	

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
		4587	0	3066	45852	CA	60	61.5	10.0	40.0	10.0		10.3	41.0	10.3	
Human Health & Physiology	full	4417	0	1317	44151F	W	75	80.1	40.0	30.0	5.0		42.7	32.0	5.3	
		4417	0	1317	44152	CA	25	19.9	0.0	5.0	20.0		0.0	4.0	15.9	
Human Health & Physiology	full	4417	1	935	44151H	W	75	81.5	40.0	30.0	5.0		43.5	32.6	5.4	
		4417	1	935	44152	CA	25	18.5	0.0	5.0	20.0		0.0	3.7	14.8	
Humanities	full	4072	0	9828	40701	W	37.5	36.1	19.0	12.5	6.0		18.3	12.0	5.8	
		4072	0	9828	40702	W	37.5	40.5	19.0	12.5	6.0		20.5	13.5	6.5	
		4072	0	9828	40703	CA	25	23.3	7.0	7.0	11.0		6.5	6.5	10.3	
ICT	short	4521	0	446	45202	CA	60	66.5	10.0	35.0	15.0		11.1	38.8	16.6	
		4521	0	446	45204	W	40	33.5	20.0	10.0	10.0		16.7	8.4	8.4	
Italian	full	4633	0	241	46301F	W	20	10.9	20.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0
		4633	0	241	46302F	W	20	11.1	0.0	0.0	20.0	0.0	0.0	0.0	11.1	0.0
		4633	0	241	46303	CA	30	36.6	0.0	30.0	0.0	0.0	0.0	36.6	0.0	0.0
		4633	0	241	46304	CA	30	41.4	0.0	0.0	0.0	30.0	0.0	0.0	0.0	41.4
Italian	full	4633	2	1917	46301H	W	20	19.1	20.0	0.0	0.0	0.0	19.1	0.0	0.0	0.0
		4633	2	1917	46302H	W	20	14.3	0.0	0.0	20.0	0.0	0.0	0.0	14.3	0.0
		4633	2	1917	46303	CA	30	34.1	0.0	30.0	0.0	0.0	0.0	34.1	0.0	0.0
		4633	2	1917	46304	CA	30	32.5	0.0	0.0	0.0	30.0	0.0	0.0	0.0	32.5
Law	full	4162	0	2211	41601	W	50	46.9	26.0	0.0	24.0		24.4	0.0	22.5	
		4162	0	2211	41602	W	50	53.1	11.0	28.0	11.0		11.7	29.7	11.7	
Leisure & Tourism	full	4842	0	1606	48401	W	40	34.7	20.0	12.0	8.0		17.3	10.4	6.9	
		4842	0	1606	48402	CA	60	65.3	15.0	33.0	12.0		16.3	35.9	13.1	
Leisure & Tourism	double	4844	0	459	48401	W	20	14.0	10.0	6.0	4.0		7.0	4.2	2.8	
		4844	0	459	48402	CA	30	31.6	7.5	16.5	6.0		7.9	17.4	6.3	
		4844	0	459	48403	W	20	18.1	10.0	6.0	4.0		9.0	5.4	3.6	
		4844	0	459	48404	CA	30	36.3	7.5	16.5	6.0		9.1	20.0	7.3	
Media Studies	full	4812	0	38883	48101	W	40	39.2	20.0	0.0	10.0	10.0	19.6	0.0	9.8	9.8

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight				
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	
		4812	0	38883	48102	CA	60	60.8	0.0	20.0	20.0	20.0	0.0	20.3	20.3	20.3	
Methods in Mathematics Pilot	full	9367	0	1061	93651F	W	50	46.7	27.5	10.0	12.5		25.7	9.3	11.7		
		9367	0	1061	93652F	W	50	53.3	27.5	10.0	12.5		29.3	10.7	13.3		
Methods in Mathematics Pilot	full	9367	3	914	93651H	W	50	46.4	27.5	10.0	12.5		25.5	9.3	11.6		
		9367	3	914	93652H	W	50	53.6	27.5	10.0	12.5		29.5	10.7	13.4		
Modern Hebrew	full	4678	0	464	46751	W	25	21.9	25.0	0.0	0.0	0.0	21.9	0.0	0.0	0.0	
		4678	0	464	46752	W	25	28.3	0.0	25.0	0.0	0.0	0.0	28.3	0.0	0.0	
		4678	0	464	46753	EAS	25	19.7	0.0	0.0	25.0	0.0	0.0	0.0	0.0	19.7	0.0
		4678	0	464	46754	W	25	30.2	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	30.2
Music	full	4272	0	14675	42701	W	20	19.7	0.0	0.0	20.0		0.0	0.0	19.7		
		4272	0	14675	42702	EAP	20	17.6	0.0	10.0	10.0		0.0	8.8	8.8		
		4272	0	14675	42703	CA	40	43.6	40.0	0.0	0.0		43.6	0.0	0.0		
		4272	0	14675	42704	CA	20	19.2	0.0	20.0	0.0		0.0	19.2	0.0		
Panjabi	short	4681	1	127	46801H	W	50	50.7	50.0	0.0			50.7	0.0			
		4681	1	127	46803	EAS	50	49.3	0.0	50.0			0.0	49.3			
Panjabi	full	4683	2	778	46801H	W	25	19.8	25.0	0.0	0.0	0.0	19.8	0.0	0.0	0.0	
		4683	2	778	46802H	W	25	34.8	0.0	25.0	0.0	0.0	0.0	34.8	0.0	0.0	
		4683	2	778	46803	EAS	25	15.3	0.0	0.0	25.0	0.0	0.0	0.0	0.0	15.3	0.0
		4683	2	778	46804	W	25	30.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	30.0
Performing Arts	full	4882	0	3707	48801	CA	60	60.0	20.0	20.0	10.0	10.0	20.0	20.0	10.0	10.0	
		4882	0	3707	48802	EXA	40	40.0	5.0	20.0	5.0	10.0	5.0	20.0	5.0	10.0	
Performing Arts	double	4884	0	1375	48801	CA	30	27.4	10.0	10.0	5.0	5.0	9.1	9.1	4.6	4.6	
		4884	0	1375	48802	EXA	20	17.5	2.5	10.0	2.5	5.0	2.2	8.7	2.2	4.4	
		4884	0	1375	48803	CA	30	33.5	10.0	10.0	5.0	5.0	11.2	11.2	5.6	5.6	
		4884	0	1375	48804	EXA	20	21.6	2.5	10.0	2.5	5.0	2.7	10.8	2.7	5.4	
Photography	full	4206	0	7295	42061	CA	60	58.2	15.0	15.0	15.0	15.0	14.6	14.6	14.6	14.6	
		4206	0	7295	42062	EA	40	41.8	10.0	10.0	10.0	10.0	10.4	10.4	10.4	10.4	

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Physical Education	short	4891	0	3541	48901	W	40	32.3	27.0	0.0	13.0		21.8	0.0	10.5	
		4891	0	3541	48902	CA	60	67.7	0.0	53.0	7.0		0.0	59.8	7.9	
Physical Education	full	4892	0	32391	48903	W	40	44.6	27.0	0.0	13.0		30.1	0.0	14.5	
		4892	0	32391	48904	CA	60	55.4	0.0	53.0	7.0		0.0	49.0	6.5	
Polish	full	4688	0	3383	46851	W	25	23.8	25.0	0.0	0.0	0.0	23.8	0.0	0.0	0.0
		4688	0	3383	46852	W	25	27.5	0.0	25.0	0.0	0.0	0.0	27.5	0.0	0.0
		4688	0	3383	46853	EAS	25	13.8	0.0	0.0	25.0	0.0	0.0	0.0	13.8	0.0
		4688	0	3383	46854	W	25	35.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	35.0
Psychology	short	4181	0	798	41801	W	100	100.0	35.0	35.0	30.0		35.0	35.0	30.0	
Religious Studies A	short	4051	0	511	405001	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	short	4051	1	5765	405002	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	short	4051	2	343	405003	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	short	4051	3	439	405004	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	short	4051	4	1345	405005	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	short	4051	6	305	405007	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	short	4051	7	531	405008	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies A	full	4052	0	1676	405001	W	50	53.1	25.0	25.0			26.6	26.6		
		4052	0	1676	405002	W	50	46.9	25.0	25.0			23.4	23.4		
Religious Studies A	full	4052	1	166	405001	W	50	49.2	25.0	25.0			24.6	24.6		
		4052	1	166	405004	W	50	50.8	25.0	25.0			25.4	25.4		
Religious Studies A	full	4052	5	183	405001	W	50	50.3	25.0	25.0			25.1	25.1		
		4052	5	183	405008	W	50	49.7	25.0	25.0			24.9	24.9		
Religious Studies A	full	4052	7	149	405001	W	50	47.8	25.0	25.0			23.9	23.9		
		4052	7	149	405010	W	50	52.2	25.0	25.0			26.1	26.1		
Religious Studies A	full	4052	12	477	405002	W	50	47.1	25.0	25.0			23.6	23.6		
		4052	12	477	405003	W	50	52.9	25.0	25.0			26.4	26.4		
Religious Studies A	full	4052	13	5389	405002	W	50	44.9	25.0	25.0			22.4	22.4		

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
		4052	13	5389	405005	W	50	55.1	25.0	25.0			27.6	27.6		
Religious Studies A	full	4052	14	565	405002	W	50	38.5	25.0	25.0			19.2	19.2		
		4052	14	565	405006	W	50	61.5	25.0	25.0			30.8	30.8		
Religious Studies A	full	4052	15	1926	405002	W	50	46.1	25.0	25.0			23.1	23.1		
		4052	15	1926	405007	W	50	53.9	25.0	25.0			26.9	26.9		
Religious Studies A	full	4052	16	521	405002	W	50	47.1	25.0	25.0			23.6	23.6		
		4052	16	521	405008	W	50	52.9	25.0	25.0			26.4	26.4		
Religious Studies A	full	4052	17	359	405002	W	50	42.9	25.0	25.0			21.5	21.5		
		4052	17	359	405009	W	50	57.1	25.0	25.0			28.5	28.5		
Religious Studies A	full	4052	18	232	405002	W	50	50.9	25.0	25.0			25.4	25.4		
		4052	18	232	405010	W	50	49.1	25.0	25.0			24.6	24.6		
Religious Studies A	full	4052	20	475	405002	W	50	46.8	25.0	25.0			23.4	23.4		
		4052	20	475	405012	W	50	53.2	25.0	25.0			26.6	26.6		
Religious Studies A	full	4052	23	2239	405003	W	50	48.4	25.0	25.0			24.2	24.2		
		4052	23	2239	405004	W	50	51.6	25.0	25.0			25.8	25.8		
Religious Studies A	full	4052	34	11374	405004	W	50	50.6	25.0	25.0			25.3	25.3		
		4052	34	11374	405005	W	50	49.4	25.0	25.0			24.7	24.7		
Religious Studies A	full	4052	35	299	405004	W	50	49.4	25.0	25.0			24.7	24.7		
		4052	35	299	405006	W	50	50.6	25.0	25.0			25.3	25.3		
Religious Studies A	full	4052	36	420	405004	W	50	49.2	25.0	25.0			24.6	24.6		
		4052	36	420	405007	W	50	50.8	25.0	25.0			25.4	25.4		
Religious Studies A	full	4052	44	160	405005	W	50	49.2	25.0	25.0			24.6	24.6		
		4052	44	160	405007	W	50	50.8	25.0	25.0			25.4	25.4		
Religious Studies A	full	4052	67	200	405008	W	50	45.7	25.0	25.0			22.9	22.9		
		4052	67	200	405009	W	50	54.3	25.0	25.0			27.1	27.1		
Religious Studies A	full	4052	78	431	405010	W	50	41.4	25.0	25.0			20.7	20.7		
		4052	78	431	405011	W	50	58.6	25.0	25.0			29.3	29.3		

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Religious Studies B	short	4056	0	5152	40551	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies B	short	4056	1	26467	40552	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies B	short	4056	2	15402	40553	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies B	short	4056	3	4923	40554	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies B	short	4056	4	688	40555	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies B	short	4056	5	1350	40556	W	100	100.0	50.0	50.0			50.0	50.0		
Religious Studies B	full	4057	0	1371	40551	W	50	49.7	25.0	25.0			24.8	24.8		
			0	1371	40552	W	50	50.3	25.0	25.0			25.2	25.2		
Religious Studies B	full	4057	1	2576	40551	W	50	49.1	25.0	25.0			24.5	24.5		
			1	2576	40553	W	50	50.9	25.0	25.0			25.5	25.5		
Religious Studies B	full	4057	2	269	40551	W	50	45.0	25.0	25.0			22.5	22.5		
			2	269	40554	W	50	55.0	25.0	25.0			27.5	27.5		
Religious Studies B	full	4057	5	20629	40552	W	50	48.5	25.0	25.0			24.2	24.2		
			5	20629	40553	W	50	51.5	25.0	25.0			25.8	25.8		
Religious Studies B	full	4057	6	5673	40552	W	50	49.1	25.0	25.0			24.5	24.5		
			6	5673	40554	W	50	50.9	25.0	25.0			25.5	25.5		
Religious Studies B	full	4057	7	393	40552	W	50	55.9	25.0	25.0			28.0	28.0		
			7	393	40555	W	50	44.1	25.0	25.0			22.0	22.0		
Religious Studies B	full	4057	8	306	40552	W	50	54.4	25.0	25.0			27.2	27.2		
			8	306	40556	W	50	45.6	25.0	25.0			22.8	22.8		
Religious Studies B	full	4057	9	6555	40553	W	50	50.1	25.0	25.0			25.0	25.0		
			9	6555	40554	W	50	49.9	25.0	25.0			25.0	25.0		
Religious Studies B	full	4057	10	336	40553	W	50	51.1	25.0	25.0			25.5	25.5		
			10	336	40555	W	50	48.9	25.0	25.0			24.5	24.5		
Religious Studies B	full	4057	11	919	40553	W	50	55.9	25.0	25.0			28.0	28.0		
			11	919	40556	W	50	44.1	25.0	25.0			22.0	22.0		
Religious Studies B	full	4057	12	342	40554	W	50	61.5	25.0	25.0			30.7	30.7		

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight				
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	
Religious Studies B	full	4057	12	342	40555	W	50	38.5	25.0	25.0			19.3	19.3			
		4057	13	173	40554	W	50	48.5	25.0	25.0			24.3	24.3			
Religious Studies B	full	4057	13	173	40556	W	50	51.5	25.0	25.0			25.7	25.7			
		4057	14	232	40555	W	50	44.5	25.0	25.0			22.3	22.3			
Sociology	short	4191	0	1372	41901	W	100	100.0	40.0	40.0	20.0		40.0	40.0	20.0		
		4192	0	13661	41901	W	50	45.8	20.0	20.0	10.0		18.3	18.3	9.2		
Sociology	full	4192	0	13661	41902	W	50	54.2	20.0	20.0	10.0		21.7	21.7	10.8		
		4697	0	373	46952F	W	40	29.5			40.0	0.0			29.5	0.0	
Spanish	short	4697	0	373	46954	CAE	60	70.5			0.0	60.0			0.0	70.5	
		4697	1	161	46952H	W	40	36.9			40.0	0.0			36.9	0.0	
Spanish	short	4697	1	161	46954	CAE	60	63.1			0.0	60.0			0.0	63.1	
		4698	0	9538	46951F	W	20	11.9	20.0	0.0	0.0	0.0		11.9	0.0	0.0	0.0
Spanish	full	4698	0	9538	46952F	W	20	12.1	0.0	0.0	20.0	0.0		0.0	0.0	12.1	0.0
		4698	0	9538	46953	CA	30	37.7	0.0	30.0	0.0	0.0		0.0	37.7	0.0	0.0
		4698	0	9538	46954	CAE	30	38.3	0.0	0.0	0.0	30.0		0.0	0.0	0.0	38.3
		4698	0	9538	46954	CAE	30	38.3	0.0	0.0	0.0	30.0		0.0	0.0	0.0	38.3
Spanish	full	4698	1	3150	46951F	W	20	9.2	20.0	0.0	0.0	0.0		9.2	0.0	0.0	0.0
		4698	1	3150	46952H	W	20	20.7	0.0	0.0	20.0	0.0		0.0	0.0	20.7	0.0
		4698	1	3150	46953	CA	30	32.7	0.0	30.0	0.0	0.0		0.0	32.7	0.0	0.0
		4698	1	3150	46954	CAE	30	37.4	0.0	0.0	0.0	30.0		0.0	0.0	0.0	37.4
Spanish	full	4698	2	22301	46951H	W	20	23.2	20.0	0.0	0.0	0.0		23.2	0.0	0.0	0.0
		4698	2	22301	46952H	W	20	21.6	0.0	0.0	20.0	0.0		0.0	0.0	21.6	0.0
		4698	2	22301	46953	CA	30	26.8	0.0	30.0	0.0	0.0		0.0	26.8	0.0	0.0
		4698	2	22301	46954	CAE	30	28.4	0.0	0.0	0.0	30.0		0.0	0.0	0.0	28.4
Spanish	full	4698	3	412	46951H	W	20	17.0	20.0	0.0	0.0	0.0		17.0	0.0	0.0	0.0
		4698	3	412	46952F	W	20	8.7	0.0	0.0	20.0	0.0		0.0	0.0	8.7	0.0
		4698	3	412	46953	CA	30	34.2	0.0	30.0	0.0	0.0		0.0	34.2	0.0	0.0

Title	Award	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight				Achieved Weight			
									AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
		4698	3	412	46954	CAE	30	40.1	0.0	0.0	0.0	30.0	0.0	0.0	0.0	40.1
Statistics	full	4312	0	4638	43101F	W	75	79.3	10.0	13.0	30.0	22.0	10.6	13.7	31.7	23.3
		4312	0	4638	43102	CA	25	20.7	3.0	3.0	12.0	7.0	2.5	2.5	9.9	5.8
Statistics	full	4312	1	12002	43101H	W	75	75.7	10.0	13.0	30.0	22.0	10.1	13.1	30.3	22.2
		4312	1	12002	43102	CA	25	24.3	3.0	3.0	12.0	7.0	2.9	2.9	11.7	6.8
Textile Design	full	4204	0	4946	42041	CA	60	58.1	15.0	15.0	15.0	15.0	14.5	14.5	14.5	14.5
		4204	0	4946	42042	EA	40	41.9	10.0	10.0	10.0	10.0	10.5	10.5	10.5	10.5
Three-Dimensional Design	full	4205	0	1516	42051	CA	60	56.3	15.0	15.0	15.0	15.0	14.1	14.1	14.1	14.1
		4205	0	1516	42052	EA	40	43.7	10.0	10.0	10.0	10.0	10.9	10.9	10.9	10.9
Urdu	short	4646	0	120	46451F	W	40	25.6	40.0	0.0			25.6	0.0		
		4646	0	120	46453	CA	60	74.4	0.0	60.0			0.0	74.4		
Urdu	full	4648	0	415	46451F	W	20	13.1	20.0	0.0	0.0	0.0	13.1	0.0	0.0	0.0
		4648	0	415	46452F	W	20	15.9	0.0	0.0	20.0	0.0	0.0	0.0	15.9	0.0
		4648	0	415	46453	CA	30	32.5	0.0	30.0	0.0	0.0	0.0	32.5	0.0	0.0
		4648	0	415	46454	CAE	30	38.5	0.0	0.0	0.0	30.0	0.0	0.0	0.0	38.5
Urdu	full	4648	2	1711	46451H	W	20	19.8	20.0	0.0	0.0	0.0	19.8	0.0	0.0	0.0
		4648	2	1711	46452H	W	20	28.0	0.0	0.0	20.0	0.0	0.0	0.0	28.0	0.0
		4648	2	1711	46453	CA	30	27.6	0.0	30.0	0.0	0.0	0.0	27.6	0.0	0.0
		4648	2	1711	46454	CAE	30	24.7	0.0	0.0	0.0	30.0	0.0	0.0	0.0	24.7
Urdu	full	4648	3	152	46451H	W	20	23.1	20.0	0.0	0.0	0.0	23.1	0.0	0.0	0.0
		4648	3	152	46452F	W	20	12.8	0.0	0.0	20.0	0.0	0.0	0.0	12.8	0.0
		4648	3	152	46453	CA	30	34.6	0.0	30.0	0.0	0.0	0.0	34.6	0.0	0.0
		4648	3	152	46454	CAE	30	29.4	0.0	0.0	0.0	30.0	0.0	0.0	0.0	29.4

## Appendix 2 – GCSE: The intended and achieved weights of assessment objectives by specification

**Table 38. GCSE: The intended and achieved weights of assessment objectives by specification. Absolute differences: Red < 1%, Amber ≥ -1% to ≤ 1%, Green > 1%. Proportional differences: Red < 10%, Amber ≥ -10% to ≤ 10%, Green > 10%.**

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Additional Applied Science	full	4863	0	12820	35.0	30.0	35.0		30.9	30.3	38.7		-4.1	0.3	3.7		-11.7	1.1	10.7	
Additional Applied Science	full	4863	1	2018	35.0	30.0	35.0		30.2	30.0	39.8		-4.8	0.0	4.8		-13.8	0.0	13.8	
Applications of Mathematics Pilot	full	9372	0	364	45.0	35.0	20.0		45.0	35.0	20.0		0.0	0.0	0.0		0.0	0.0	0.0	
Applications of Mathematics Pilot	full	9372	3	461	45.0	35.0	20.0		45.0	35.0	20.0		0.0	0.0	0.0		0.0	0.0	0.0	
Applied Art & Design	full	4207	0	1288	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Applied Business	double	4136	0	1249	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Applied Business	double	4136	1	217	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Applied Business	double	4136	2	334	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Applied Science	double	4861	0	5365	30.0	30.0	40.0		25.7	30.2	44.1		-4.3	0.2	4.1		-14.3	0.8	10.1	
Applied Science	double	4861	1	495	30.0	30.0	40.0		26.1	30.2	43.7		-3.9	0.2	3.7		-13.0	0.6	9.2	
Art & Design	full	4201	0	50099	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Art & Design	short	4211	0	2817	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bengali	short	4636	0	104	50.0	50.0			46.0	54.0			-4.0	4.0			-8.1	8.1		
Bengali	short	4636	1	138	50.0	50.0			60.3	39.7			10.3	-10.3			20.7	-20.7		
Bengali	full	4638	0	214	25.0	25.0	25.0	25.0	16.6	22.3	21.9	39.2	-8.4	-2.7	-3.1	14.2	-33.6	-10.8	-12.6	57.0
Bengali	full	4638	2	102	25.0	25.0	25.0	25.0	24.7	20.6	21.1	33.6	-0.3	-4.4	-3.9	8.6	-1.1	-17.6	-15.6	34.3
Bengali	full	4638	3	672	25.0	25.0	25.0	25.0	17.9	31.9	17.1	33.1	-7.1	6.9	-7.9	8.1	-28.3	27.4	-31.6	32.5
Business & Communication Systems	full	4134	0	15207	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Business Studies	short	4131	0	534	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Business Studies	full	4133	0	20754	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Chinese (Mandarin)	full	4673	2	187	20.0	30.0	20.0	30.0	23.3	22.3	24.2	30.2	3.3	-7.7	4.2	0.2	16.6	-25.8	21.0	0.7
Citizenship Studies	short	4106	0	17737	30.0	40.0	30.0		30.7	45.2	24.1		0.7	5.2	-5.9		2.2	13.1	-19.7	
Citizenship Studies	full	4107	0	2459	30.0	40.0	30.0		30.5	43.6	25.9		0.5	3.6	-4.1		1.5	9.1	-13.6	
Classical Civilisation	short	4021	1	187	28.8	28.8	42.5		29.3	29.3	41.5		0.5	0.5	-1.0		1.8	1.8	-2.5	
Classical Civilisation	full	4022	0	122	30.6	30.6	38.8		31.1	31.1	37.8		0.5	0.5	-1.0		1.6	1.6	-2.6	
Classical Civilisation	full	4022	6	1063	30.6	30.6	38.8		31.0	31.0	38.1		0.3	0.3	-0.7		1.1	1.1	-1.7	
D&T	short	4576	0	3998	25.0	55.0	20.0		24.5	55.7	19.8		-0.5	0.7	-0.2		-2.1	1.3	-1.1	
D&T: Electronic Products	full	4542	0	8583	25.0	55.0	20.0		25.0	54.9	20.0		0.0	-0.1	0.0		0.2	-0.1	0.1	
D&T: Food Technology	full	4547	0	41752	25.0	55.0	20.0		24.8	55.3	19.9		-0.2	0.3	-0.1		-0.9	0.6	-0.4	
D&T: Graphic Products	full	4552	0	31953	25.0	55.0	20.0		24.7	55.4	19.9		-0.3	0.4	-0.1		-1.2	0.8	-0.6	
D&T: Product Design	full	4557	0	26693	25.0	55.0	20.0		24.8	55.3	19.9		-0.2	0.3	-0.1		-0.8	0.5	-0.4	
D&T: Resistant Materials	full	4562	0	41896	25.0	55.0	20.0		24.6	55.6	19.8		-0.4	0.6	-0.2		-1.6	1.0	-0.8	
D&T: Systems & Control	full	4567	0	2229	25.0	55.0	20.0		24.9	55.2	20.0		-0.1	0.2	0.0		-0.4	0.3	-0.2	
D&T: Textiles Technology	full	4572	0	27667	25.0	55.0	20.0		24.7	55.4	19.9		-0.3	0.4	-0.1		-1.0	0.7	-0.5	
Dance	full	4232	0	13285	30.0	45.0	25.0		23.1	49.9	27.0		-6.9	4.9	2.0		-22.9	10.9	7.9	
Drama	full	4242	0	22964	35.0	45.0	20.0		37.2	38.4	24.4		2.2	-6.6	4.4		6.3	-14.8	22.2	
Economics	short	4132	0	1111	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Economics	full	4135	0	1576	30.0	35.0	35.0		30.0	35.0	35.0		0.0	0.0	0.0		0.0	0.0	0.0	
Electronics	full	4432	0	411	37.0	42.5	20.5		38.7	44.3	17.0		1.7	1.8	-3.5		4.6	4.3	-17.2	
Engineering	full	4852	0	1166	30.0	55.0	15.0		29.0	55.8	15.1		-1.0	0.8	0.1		-3.2	1.5	0.8	
Engineering	double	4854	0	531	30.0	55.0	15.0		29.5	55.4	15.1		-0.5	0.4	0.1		-1.6	0.8	0.4	
Environmental Science	full	4442	0	321	40.0	35.0	25.0		41.7	35.6	22.7		1.7	0.6	-2.3		4.2	1.8	-9.1	
Environmental Science	full	4442	1	441	40.0	35.0	25.0		44.3	36.6	19.1		4.3	1.6	-5.9		10.8	4.6	-23.8	

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Expressive Arts	full	4262	0	2764	10.0	40.0	40.0	10.0	10.1	39.9	39.9	10.1	0.1	-0.1	-0.1	0.1	1.4	-0.3	-0.3	1.4
Fine Art	full	4202	0	28583	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
French	short	4657	0	1552			40.0	60.0			24.4	75.6			-15.6	15.6			-39.0	26.0
French	short	4657	1	311			40.0	60.0			38.5	61.5			-1.5	1.5			-3.8	2.5
French	full	4658	0	23432	20.0	30.0	20.0	30.0	11.3	38.0	10.7	40.0	-8.7	8.0	-9.3	10.0	-43.5	26.8	-46.5	33.2
French	full	4658	1	5647	20.0	30.0	20.0	30.0	7.6	36.4	15.8	40.2	-12.4	6.4	-4.2	10.2	-61.8	21.4	-21.1	33.9
French	full	4658	2	50064	20.0	30.0	20.0	30.0	19.5	29.7	20.5	30.3	-0.5	-0.3	0.5	0.3	-2.4	-1.1	2.7	0.9
French	full	4658	3	1105	20.0	30.0	20.0	30.0	15.2	38.0	8.5	38.3	-4.8	8.0	-11.5	8.3	-23.9	26.6	-57.7	27.8
General Studies	full	4762	0	8068	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Geography A	short	4031	0	454	30.0	30.0	40.0		29.5	29.9	40.5		-0.5	-0.1	0.5		-1.6	-0.2	1.3	
Geography A	short	4031	1	333	30.0	30.0	40.0		29.0	29.9	41.1		-1.0	-0.1	1.1		-3.2	-0.4	2.7	
Geography A	full	4032	0	17249	39.0	31.0	30.0		40.9	31.2	27.9		1.9	0.2	-2.1		4.8	0.7	-7.0	
Geography A	full	4032	1	722	39.0	31.0	30.0		38.2	30.9	30.9		-0.8	-0.1	0.9		-2.1	-0.3	3.0	
Geography A	full	4032	2	818	39.0	31.0	30.0		37.9	30.9	31.2		-1.1	-0.1	1.2		-2.7	-0.4	4.0	
Geography A	full	4032	3	47406	39.0	31.0	30.0		40.3	31.1	28.5		1.3	0.1	-1.5		3.4	0.5	-5.0	
Geography B	short	4036	0	299	30.0	30.0	40.0		28.7	28.7	42.5		-1.3	-1.3	2.5		-4.2	-4.2	6.4	
Geography B	full	4037	0	3629	30.0	30.0	40.0		30.1	29.7	40.1		0.1	-0.3	0.1		0.5	-0.9	0.3	
Geography B	full	4037	1	149	30.0	30.0	40.0		29.5	27.9	42.6		-0.5	-2.1	2.6		-1.7	-6.9	6.4	
Geography B	full	4037	2	326	30.0	30.0	40.0		28.5	27.5	44.0		-1.5	-2.5	4.0		-5.0	-8.4	10.0	
Geography B	full	4037	3	180	30.0	30.0	40.0		31.4	24.9	43.7		1.4	-5.1	3.7		4.7	-17.0	9.3	
Geography B	full	4037	4	215	30.0	30.0	40.0		29.9	27.9	42.2		-0.1	-2.1	2.2		-0.3	-6.9	5.4	
Geography B	full	4037	5	149	30.0	30.0	40.0		29.1	26.7	44.2		-0.9	-3.3	4.2		-3.1	-11.0	10.6	
Geography B	full	4037	6	8486	30.0	30.0	40.0		30.0	29.0	41.0		0.0	-1.0	1.0		0.0	-3.2	2.4	

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Geography B	full	4037	7	129	30.0	30.0	40.0		31.9	28.2	39.9		1.9	-1.8	-0.1		6.5	-6.1	-0.3	
German	short	4666	0	120	40.0	60.0			33.1	66.9			-6.9	6.9			-17.2	11.5		
German	short	4667	0	436	40.0	60.0			33.7	66.3			-6.3	6.3			-15.8	10.5		
German	full	4668	0	9045	20.0	30.0	20.0	30.0	14.2	34.9	16.3	34.6	-5.8	4.9	-3.7	4.6	-29.1	16.4	-18.5	15.4
German	full	4668	1	1104	20.0	30.0	20.0	30.0	8.0	34.8	15.1	42.0	-12.0	4.8	-4.9	12.0	-59.8	16.1	-24.4	40.1
German	full	4668	2	20377	20.0	30.0	20.0	30.0	17.1	31.3	18.4	33.2	-2.9	1.3	-1.6	3.2	-14.6	4.4	-7.8	10.5
German	full	4668	3	1112	20.0	30.0	20.0	30.0	15.4	36.8	11.9	35.9	-4.6	6.8	-8.1	5.9	-23.1	22.6	-40.6	19.8
Graphic Communication	full	4203	0	3764	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health & Social Care	full	4822	0	1560	30.0	45.0	25.0		30.0	45.0	25.0		0.0	0.0	0.0		0.0	0.0	0.0	
History A	short	4041	0	289	29.0	31.0	40.0		28.9	30.9	40.2		-0.1	-0.1	0.2		-0.3	-0.3	0.5	
History A	full	4042	0	6531	30.0	30.0	40.0		30.2	30.2	39.5		0.2	0.2	-0.5		0.8	0.8	-1.2	
History A	full	4042	1	507	30.0	30.0	40.0		30.3	30.3	39.4		0.3	0.3	-0.6		1.1	1.1	-1.6	
History A	full	4042	2	554	30.0	30.0	40.0		30.2	30.2	39.6		0.2	0.2	-0.4		0.7	0.7	-1.0	
History A	full	4042	3	2856	30.0	30.0	40.0		30.2	30.2	39.6		0.2	0.2	-0.4		0.7	0.7	-1.0	
History B	short	4046	0	457	30.0	30.0	40.0		33.4	33.4	33.2		3.4	3.4	-6.8		11.3	11.3	-16.9	
History B	full	4047	0	35720	32.5	32.5	35.0		33.8	33.8	32.5		1.3	1.3	-2.5		3.9	3.9	-7.2	
Home Economics: Child Development	full	4582	0	7751	35.0	40.0	25.0		34.3	40.7	25.0		-0.7	0.7	0.0		-1.9	1.6	0.0	
Home Economics: Food & Nutrition	full	4587	0	3066	30.0	50.0	20.0		29.5	50.6	19.9		-0.5	0.6	-0.1		-1.7	1.3	-0.6	
Human Health & Physiology	full	4417	0	1317	40.0	35.0	25.0		42.7	36.0	21.3		2.7	1.0	-3.7		6.8	2.9	-14.9	
Human Health & Physiology	full	4417	1	935	40.0	35.0	25.0		43.5	36.3	20.2		3.5	1.3	-4.8		8.6	3.7	-19.0	
Humanities	full	4072	0	9828	45.0	32.0	23.0		45.4	32.1	22.5		0.4	0.1	-0.5		0.8	0.3	-2.0	
ICT	short	4521	0	446	30.0	45.0	25.0		27.8	47.2	25.0		-2.2	2.2	0.0		-7.2	4.8	0.0	
Italian	full	4633	0	241	20.0	30.0	20.0	30.0	10.9	36.6	11.1	41.4	-9.1	6.6	-8.9	11.4	-45.6	21.9	-44.3	38.0

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Italian	full	4633	2	1917	20.0	30.0	20.0	30.0	19.1	34.1	14.3	32.5	-0.9	4.1	-5.7	2.5	-4.5	13.5	-28.5	8.5
Law	full	4162	0	2211	37.0	28.0	35.0		36.1	29.7	34.2		-0.9	1.7	-0.8		-2.5	6.2	-2.3	
Leisure & Tourism	full	4842	0	1606	35.0	45.0	20.0		33.7	46.3	20.0		-1.3	1.3	0.0		-3.8	3.0	0.0	
Leisure & Tourism	double	4844	0	459	35.0	45.0	20.0		33.0	47.0	20.0		-2.0	2.0	0.0		-5.7	4.4	0.0	
Media Studies	full	4812	0	38883	20.0	20.0	30.0	30.0	19.6	20.3	30.1	30.1	-0.4	0.3	0.1	0.1	-2.1	1.4	0.2	0.2
Methods in Mathematics Pilot	full	9367	0	1061	55.0	20.0	25.0		55.0	20.0	25.0		0.0	0.0	0.0		0.0	0.0	0.0	
Methods in Mathematics Pilot	full	9367	3	914	55.0	20.0	25.0		55.0	20.0	25.0		0.0	0.0	0.0		0.0	0.0	0.0	
Modern Hebrew	full	4678	0	464	25.0	25.0	25.0	25.0	21.9	28.3	19.7	30.2	-3.1	3.3	-5.3	5.2	-12.5	13.1	-21.3	20.7
Music	full	4272	0	14675	40.0	30.0	30.0		43.6	27.9	28.4		3.6	-2.1	-1.6		9.0	-6.9	-5.2	
Panjabi	short	4681	1	127	50.0	50.0			50.7	49.3			0.7	-0.7			1.4	-1.4		
Panjabi	full	4683	2	778	25.0	25.0	25.0	25.0	19.8	34.8	15.3	30.0	-5.2	9.8	-9.7	5.0	-20.7	39.2	-38.6	20.1
Performing Arts	full	4882	0	3707	25.0	40.0	15.0	20.0	25.0	40.0	15.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Performing Arts	double	4884	0	1375	25.0	40.0	15.0	20.0	25.2	39.9	15.0	19.9	0.2	-0.1	0.0	-0.1	0.7	-0.4	0.2	-0.4
Photography	full	4206	0	7295	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical Education	short	4891	0	3541	27.0	53.0	20.0		21.8	59.8	18.4		-5.2	6.8	-1.6		-19.1	12.8	-8.0	
Physical Education	full	4892	0	32391	27.0	53.0	20.0		30.1	49.0	20.9		3.1	-4.0	0.9		11.4	-7.6	4.7	
Polish	full	4688	0	3383	25.0	25.0	25.0	25.0	23.8	27.5	13.8	35.0	-1.2	2.5	-11.2	10.0	-4.9	9.9	-44.9	39.9
Psychology	short	4181	0	798	35.0	35.0	30.0		35.0	35.0	30.0		0.0	0.0	0.0		0.0	0.0	0.0	
Religious Studies A	short	4051	0	511	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	short	4051	1	5765	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	short	4051	2	343	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	short	4051	3	439	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	short	4051	4	1345	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Religious Studies A	short	4051	6	305	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	short	4051	7	531	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	0	1676	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	1	166	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	5	183	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	7	149	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	12	477	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	13	5389	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	14	565	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	15	1926	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	16	521	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	17	359	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	18	232	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	20	475	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	23	2239	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	34	11374	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	35	299	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	36	420	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	44	160	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	67	200	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies A	full	4052	78	431	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	short	4056	0	5152	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	short	4056	1	26467	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Religious Studies B	short	4056	2	15402	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	short	4056	3	4923	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	short	4056	4	688	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	short	4056	5	1350	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	0	1371	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	1	2576	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	2	269	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	5	20629	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	6	5673	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	7	393	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	8	306	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	9	6555	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	10	336	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	11	919	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	12	342	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	13	173	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Religious Studies B	full	4057	14	232	50.0	50.0			50.0	50.0			0.0	0.0			0.0	0.0		
Sociology	short	4191	0	1372	40.0	40.0	20.0		40.0	40.0	20.0		0.0	0.0	0.0		0.0	0.0	0.0	
Sociology	full	4192	0	13661	40.0	40.0	20.0		40.0	40.0	20.0		0.0	0.0	0.0		0.0	0.0	0.0	
Spanish	short	4697	0	373			40.0	60.0			29.5	70.5			-10.5	10.5			-26.3	17.5
Spanish	short	4697	1	161			40.0	60.0			36.9	63.1			-3.1	3.1			-7.9	5.2
Spanish	full	4698	0	9538	20.0	30.0	20.0	30.0	11.9	37.7	12.1	38.3	-8.1	7.7	-7.9	8.3	-40.7	25.7	-39.6	27.8
Spanish	full	4698	1	3150	20.0	30.0	20.0	30.0	9.2	32.7	20.7	37.4	-10.8	2.7	0.7	7.4	-53.9	9.0	3.5	24.6

Title	Award	Entry Code	Route	Cands.	Intended Weight				Achieved Weight				Difference (Achieved - Intended)				Percentage Difference (%)			
					AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4	AO1	AO2	AO3	AO4
Spanish	full	4698	2	22301	20.0	30.0	20.0	30.0	23.2	26.8	21.6	28.4	3.2	-3.2	1.6	-1.6	16.2	-10.7	7.8	-5.3
Spanish	full	4698	3	412	20.0	30.0	20.0	30.0	17.0	34.2	8.7	40.1	-3.0	4.2	-11.3	10.1	-15.1	14.0	-56.4	33.7
Statistics	full	4312	0	4638	13.0	16.0	42.0	29.0	13.1	16.2	41.7	29.1	0.1	0.2	-0.3	0.1	0.4	1.4	-0.8	0.2
Statistics	full	4312	1	12002	13.0	16.0	42.0	29.0	13.0	16.0	41.9	29.0	0.0	0.0	-0.1	0.0	0.1	0.2	-0.1	0.0
Textile Design	full	4204	0	4946	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Three-Dimensional Design	full	4205	0	1516	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Urdu	short	4646	0	120	40.0	60.0			25.6	74.4			-14.4	14.4			-36.1	24.0		
Urdu	full	4648	0	415	20.0	30.0	20.0	30.0	13.1	32.5	15.9	38.5	-6.9	2.5	-4.1	8.5	-34.4	8.3	-20.7	28.4
Urdu	full	4648	2	1711	20.0	30.0	20.0	30.0	19.8	27.6	28.0	24.7	-0.2	-2.4	8.0	-5.3	-1.1	-8.1	39.8	-17.7
Urdu	full	4648	3	152	20.0	30.0	20.0	30.0	23.1	34.6	12.8	29.4	3.1	4.6	-7.2	-0.6	15.7	15.4	-35.9	-1.9

### Appendix 3 – A-level: The intended and achieved weights of assessment objectives by unit

Table 39. A-level: The intended and achieved weights of assessment objectives by unit.

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Accounting	2121	0	3196	ACCN1	W	25.00	17.37	10.0	12.5	2.5			6.9	8.7	1.7		
	2121	0	3196	ACCN2	W	25.00	21.49	5.0	12.5	7.5			4.3	10.7	6.4		
	2121	0	3196	ACCN3	W	25.00	30.86	5.0	12.5	7.5			6.2	15.4	9.3		
	2121	0	3196	ACCN4	W	25.00	30.27	5.0	12.5	7.5			6.1	15.1	9.1		
Archaeology	2011	0	406	ARCH1	W	20.00	14.26	0.0	20.0				0.0	14.3			
	2011	0	406	ARCH2	W	30.00	25.16	20.0	10.0				16.8	8.4			
	2011	0	406	ARCH3	W	30.00	37.77	5.0	25.0				6.3	31.5			
	2011	0	406	ARCH4	C	20.00	22.80	15.0	5.0				17.1	5.7			
Art & Design (Art, Craft and Design)	2201A	0	3048	ARTA1	C	25.00	21.27	6.3	6.3	6.3	6.3		5.3	5.3	5.3	5.3	
	2201A	0	3048	ARTA2	IT	25.00	23.03	6.3	6.3	6.3	6.3		5.8	5.8	5.8	5.8	
	2201A	0	3048	ARTA3	C	25.00	27.40	6.3	6.3	6.3	6.3		6.8	6.8	6.8	6.8	
	2201A	0	3048	ARTA4	IT	25.00	28.30	6.3	6.3	6.3	6.3		7.1	7.1	7.1	7.1	
Art & Design (Fine Art)	2202B	0	6092	ARTB1	C	25.00	21.47	6.3	6.3	6.3	6.3		5.4	5.4	5.4	5.4	
	2202B	0	6092	ARTB2	IT	25.00	23.27	6.3	6.3	6.3	6.3		5.8	5.8	5.8	5.8	
	2202B	0	6092	ARTB3	C	25.00	27.16	6.3	6.3	6.3	6.3		6.8	6.8	6.8	6.8	
	2202B	0	6092	ARTB4	IT	25.00	28.09	6.3	6.3	6.3	6.3		7.0	7.0	7.0	7.0	
Art & Design (Graphic Communication)	2203C	0	2025	ARTC1	C	25.00	21.49	6.3	6.3	6.3	6.3		5.4	5.4	5.4	5.4	
	2203C	0	2025	ARTC2	IT	25.00	22.49	6.3	6.3	6.3	6.3		5.6	5.6	5.6	5.6	
	2203C	0	2025	ARTC3	C	25.00	27.61	6.3	6.3	6.3	6.3		6.9	6.9	6.9	6.9	
	2203C	0	2025	ARTC4	IT	25.00	28.41	6.3	6.3	6.3	6.3		7.1	7.1	7.1	7.1	
Art & Design (Textile Design)	2204D	0	1825	ARTD1	C	25.00	21.85	6.3	6.3	6.3	6.3		5.5	5.5	5.5	5.5	
	2204D	0	1825	ARTD2	IT	25.00	22.61	6.3	6.3	6.3	6.3		5.7	5.7	5.7	5.7	
	2204D	0	1825	ARTD3	C	25.00	26.86	6.3	6.3	6.3	6.3		6.7	6.7	6.7	6.7	
	2204D	0	1825	ARTD4	IT	25.00	28.69	6.3	6.3	6.3	6.3		7.2	7.2	7.2	7.2	

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Art & Design (Three-Dimensional Design)	2205E	0	229	ARTE1	C	25.00	21.35	6.3	6.3	6.3	6.3	5.3	5.3	5.3	5.3		
	2205E	0	229	ARTE2	IT	25.00	22.94	6.3	6.3	6.3	6.3	5.7	5.7	5.7	5.7		
	2205E	0	229	ARTE3	C	25.00	26.91	6.3	6.3	6.3	6.3	6.7	6.7	6.7	6.7		
	2205E	0	229	ARTE4	IT	25.00	28.80	6.3	6.3	6.3	6.3	7.2	7.2	7.2	7.2		
Art & Design (Photography)	2206F	0	5318	ARTF1	C	25.00	20.26	6.3	6.3	6.3	6.3	5.1	5.1	5.1	5.1		
	2206F	0	5318	ARTF2	IT	25.00	21.44	6.3	6.3	6.3	6.3	5.4	5.4	5.4	5.4		
	2206F	0	5318	ARTF3	C	25.00	29.10	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3		
	2206F	0	5318	ARTF4	IT	25.00	29.21	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3		
Biology	2411	0	15121	BIOL1	W	16.67	12.70	7.0	7.0	3.0		5.3	5.3	2.3			
	2411	0	15121	BIOL2	W	23.33	20.64	9.0	9.0	5.0		8.0	8.0	4.4			
	2411	0	15121	BIO3T	C	10.00	6.94	2.0	1.0	7.0		1.4	0.7	4.9			
	2411	0	15121	BIOL4	W	16.67	19.05	5.0	8.0	4.0		5.7	9.1	4.6			
	2411	0	15121	BIOL5	W	23.33	31.08	6.0	13.0	4.0		8.0	17.3	5.3			
	2411	0	15121	BIO6T	C	10.00	9.59	1.0	2.0	7.0		1.0	1.9	6.7			
Biology	2411	1	898	BIOL1	W	16.67	12.40	7.0	7.0	3.0		5.2	5.2	2.2			
	2411	1	898	BIOL2	W	23.33	19.92	9.0	9.0	5.0		7.7	7.7	4.3			
	2411	1	898	BIO3X	EAP	10.00	8.55	2.0	1.0	7.0		1.7	0.9	6.0			
	2411	1	898	BIOL4	W	16.67	18.62	5.0	8.0	4.0		5.6	8.9	4.5			
	2411	1	898	BIOL5	W	23.33	31.09	6.0	13.0	4.0		8.0	17.3	5.3			
	2411	1	898	BIO6T	C	10.00	9.43	1.0	2.0	7.0		0.9	1.9	6.6			
Biology	2411	2	1206	BIOL1	W	16.67	12.39	7.0	7.0	3.0		5.2	5.2	2.2			
	2411	2	1206	BIOL2	W	23.33	20.16	9.0	9.0	5.0		7.8	7.8	4.3			
	2411	2	1206	BIO3T	C	10.00	7.49	2.0	1.0	7.0		1.5	0.7	5.2			
	2411	2	1206	BIOL4	W	16.67	18.72	5.0	8.0	4.0		5.6	9.0	4.5			
	2411	2	1206	BIOL5	W	23.33	31.44	6.0	13.0	4.0		8.1	17.5	5.4			
	2411	2	1206	BIO6X	EAP	10.00	9.81	1.0	2.0	7.0		1.0	2.0	6.9			
Biology	2411	3	7303	BIOL1	W	16.67	12.46	7.0	7.0	3.0		5.2	5.2	2.2			

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2411	3	7303	BIOL2	W	23.33	19.79	9.0	9.0	5.0		7.6	7.6	4.2			
	2411	3	7303	BIO3X	EAP	10.00	7.79	2.0	1.0	7.0		1.6	0.8	5.5			
	2411	3	7303	BIOL4	W	16.67	18.82	5.0	8.0	4.0		5.6	9.0	4.5			
	2411	3	7303	BIOL5	W	23.33	31.11	6.0	13.0	4.0		8.0	17.3	5.3			
	2411	3	7303	BIO6X	EAP	10.00	10.04	1.0	2.0	7.0		1.0	2.0	7.0			
Business Studies	2131	0	21751	BUSS1	W	20.00	13.48	7.0	5.5	4.0	3.5	4.7	3.7	2.7	2.4		
	2131	0	21751	BUSS2	W	30.00	28.82	8.0	7.0	8.5	6.5	7.7	6.7	8.2	6.2		
	2131	0	21751	BUSS3	W	25.00	27.08	5.0	7.5	6.3	6.3	5.4	8.1	6.8	6.8		
	2131	0	21751	BUSS4	W	25.00	30.62	5.0	5.0	6.3	8.8	6.1	6.1	7.7	10.7		
Chemistry	2421	0	12031	CHEM1	W	16.67	11.15	7.0	8.0	3.0		4.7	5.3	2.0			
	2421	0	12031	CHEM2	W	23.33	22.01	9.0	11.0	3.0		8.5	10.4	2.8			
	2421	0	12031	CHM3T	C	10.00	5.76	1.0	1.0	8.0		0.6	0.6	4.6			
	2421	0	12031	CHEM4	W	20.00	24.78	6.0	10.0	4.0		7.4	12.4	5.0			
	2421	0	12031	CHEM5	W	20.00	27.73	6.0	10.0	4.0		8.3	13.9	5.5			
	2421	0	12031	CHM6T	C	10.00	8.57	1.0	1.0	8.0		0.9	0.9	6.9			
Chemistry	2421	1	266	CHEM1	W	16.67	12.10	7.0	8.0	3.0		5.1	5.8	2.2			
	2421	1	266	CHEM2	W	23.33	21.89	9.0	11.0	3.0		8.4	10.3	2.8			
	2421	1	266	CHM3X	EAP	10.00	7.24	1.0	1.0	8.0		0.7	0.7	5.8			
	2421	1	266	CHEM4	W	20.00	23.26	6.0	10.0	4.0		7.0	11.6	4.7			
	2421	1	266	CHEM5	W	20.00	26.17	6.0	10.0	4.0		7.9	13.1	5.2			
	2421	1	266	CHM6T	C	10.00	9.33	1.0	1.0	8.0		0.9	0.9	7.5			
Chemistry	2421	2	556	CHEM1	W	16.67	11.00	7.0	8.0	3.0		4.6	5.3	2.0			
	2421	2	556	CHEM2	W	23.33	21.63	9.0	11.0	3.0		8.3	10.2	2.8			
	2421	2	556	CHM3T	C	10.00	6.42	1.0	1.0	8.0		0.6	0.6	5.1			
	2421	2	556	CHEM4	W	20.00	23.77	6.0	10.0	4.0		7.1	11.9	4.8			
	2421	2	556	CHEM5	W	20.00	26.75	6.0	10.0	4.0		8.0	13.4	5.3			
	2421	2	556	CHM6X	EAP	10.00	10.43	1.0	1.0	8.0		1.0	1.0	8.3			

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Chemistry	2421	3	2799	CHEM1	W	16.67	10.73	7.0	8.0	3.0		4.5	5.1	1.9			
	2421	3	2799	CHEM2	W	23.33	20.92	9.0	11.0	3.0		8.1	9.9	2.7			
	2421	3	2799	CHM3X	EAP	10.00	6.25	1.0	1.0	8.0		0.6	0.6	5.0			
	2421	3	2799	CHEM4	W	20.00	24.65	6.0	10.0	4.0		7.4	12.3	4.9			
	2421	3	2799	CHEM5	W	20.00	27.36	6.0	10.0	4.0		8.2	13.7	5.5			
	2421	3	2799	CHM6X	EAP	10.00	10.10	1.0	1.0	8.0		1.0	1.0	8.1			
Citizenship Studies	2101	0	770	CIST1	W	20.00	15.67	10.0	5.0	5.0	0.0	7.8	3.9	3.9	0.0		
	2101	0	770	CIST2	W	30.00	25.19	5.0	5.0	20.0	0.0	4.2	4.2	16.8	0.0		
	2101	0	770	CIST3	W	25.00	33.06	5.0	9.0	4.0	7.0	6.6	11.9	5.3	9.3		
	2101	0	770	CIST4	W	25.00	26.08	5.0	6.0	6.0	8.0	5.2	6.3	6.3	8.3		
Classical Civilisation	2021	361	138	CIV1A	W	25.00	17.40	11.5	13.5			8.0	9.4				
	2021	361	138	CIV2B	W	25.00	19.30	11.5	13.5			8.9	10.4				
	2021	361	138	CIV3C	W	25.00	31.54	11.0	14.0			13.9	17.7				
	2021	361	138	CIV4C	W	25.00	31.76	11.0	14.0			14.0	17.8				
Classical Civilisation	2021	378	142	CIV1D	W	25.00	18.56	11.5	13.5			8.5	10.0				
	2021	378	142	CIV2A	W	25.00	22.89	11.5	13.5			10.5	12.4				
	2021	378	142	CIV3C	W	25.00	27.40	11.0	14.0			12.1	15.3				
	2021	378	142	CIV4C	W	25.00	31.16	11.0	14.0			13.7	17.4				
Classical Civilisation	2021	379	229	CIV1D	W	25.00	20.39	11.5	13.5			9.4	11.0				
	2021	379	229	CIV2B	W	25.00	19.60	11.5	13.5			9.0	10.6				
	2021	379	229	CIV3C	W	25.00	29.68	11.0	14.0			13.1	16.6				
	2021	379	229	CIV4C	W	25.00	30.33	11.0	14.0			13.3	17.0				
Communication & Culture	2626	0	2020	COMM1	W	25.00	19.66	8.0	17.0	0.0	0.0	6.3	13.4	0.0	0.0		
	2626	0	2020	COMM2	C	25.00	21.42	8.0	0.0	12.0	5.0	6.9	0.0	10.3	4.3		
	2626	0	2020	COMM3	W	25.00	29.87	2.0	10.0	13.0	0.0	2.4	11.9	15.5	0.0		
	2626	0	2020	COMM4	C	25.00	29.05	2.0	8.0	10.0	5.0	2.3	9.3	11.6	5.8		
Computing	2511	0	2249	COMP1	W	30.00	23.56	12.5	17.5			9.8	13.7				

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2511	0	2249	COMP2	W	20.00	13.78	17.5	2.5				12.1	1.7			
	2511	0	2249	COMP3	W	30.00	39.29	15.0	15.0				19.6	19.6			
	2511	0	2249	COMP4	C	20.00	23.37	5.0	15.0				5.8	17.5			
Critical Thinking	2771	0	106	CRIT1	W	25.00	19.32	8.5	8.5	8.0			6.6	6.6	6.2		
	2771	0	106	CRIT2	W	25.00	19.55	5.8	8.5	10.8			4.5	6.6	8.4		
	2771	0	106	CRIT3	W	25.00	28.84	6.5	9.3	9.3			7.5	10.7	10.7		
	2771	0	106	CRIT4	W	25.00	32.30	7.0	8.0	10.0			9.0	10.3	12.9		
D&T: Food Technology	2541	0	915	FOOD1	W	25.00	22.26	15.0	10.0				13.4	8.9			
	2541	0	915	FOOD2	C	25.00	21.12	15.0	10.0				12.7	8.4			
	2541	0	915	FOOD3	W	25.00	31.51	15.0	10.0				18.9	12.6			
	2541	0	915	FOOD4	C	25.00	25.11	15.0	10.0				15.1	10.0			
D&T: Product Design (3-D Design)	2551	0	4831	PROD1	W	25.00	19.88	15.0	10.0				11.9	8.0			
	2551	0	4831	PROD2	C	25.00	23.24	15.0	10.0				13.9	9.3			
	2551	0	4831	PROD3	W	25.00	29.01	15.0	10.0				17.4	11.6			
	2551	0	4831	PROD4	C	25.00	27.87	15.0	10.0				16.7	11.1			
D&T: Product Design (Textiles)	2561	0	2210	TEXT1	W	25.00	22.96	15.0	10.0				13.8	9.2			
	2561	0	2210	TEXT2	C	25.00	21.06	15.0	10.0				12.6	8.4			
	2561	0	2210	TEXT3	W	25.00	31.27	15.0	10.0				18.8	12.5			
	2561	0	2210	TEXT4	C	25.00	24.71	15.0	10.0				14.8	9.9			
D&T: Systems & Control Technology	2556	0	272	SYST1	W	25.00	26.88	15.0	10.0				16.1	10.8			
	2556	0	272	SYST2	C	25.00	19.53	15.0	10.0				11.7	7.8			
	2556	0	272	SYST3	W	25.00	31.03	15.0	10.0				18.6	12.4			
	2556	0	272	SYST4	C	25.00	22.57	15.0	10.0				13.5	9.0			
Dance	2231	0	2286	DANC1	W	20.00	18.52	0.0	0.0	5.0	7.5	7.5	0.0	0.0	4.6	6.9	6.9
	2231	0	2286	DANC2	PC	30.00	24.35	10.0	20.0	0.0	0.0	0.0	8.1	16.2	0.0	0.0	0.0
	2231	0	2286	DANC3	W	25.00	26.58	0.0	0.0	5.0	10.0	10.0	0.0	0.0	5.3	10.6	10.6
	2231	0	2286	DANC4	EAP	25.00	30.55	15.0	10.0	0.0	0.0	0.0	18.3	12.2	0.0	0.0	0.0

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Drama & Theatre Studies	2241	0	4841	DRAM1	W	30.00	28.18	0.0	10.0	10.0	10.0		0.0	9.4	9.4	9.4	
	2241	0	4841	DRAM2	PC	20.00	14.97	15.0	2.5	2.5	0.0		11.2	1.9	1.9	0.0	
	2241	0	4841	DRAM3	W	30.00	38.22	0.0	10.0	20.0	0.0		0.0	12.7	25.5	0.0	
	2241	0	4841	DRAM4	PC	20.00	18.63	15.0	0.0	0.0	5.0		14.0	0.0	0.0	4.7	
Economics	2141	0	8333	ECON1	OTQ/W	25.00	20.62	7.5	7.5	6.0	4.0		6.2	6.2	4.9	3.3	
	2141	0	8333	ECON2	OTQ/W	25.00	22.65	7.5	7.5	6.0	4.0		6.8	6.8	5.4	3.6	
	2141	0	8333	ECON3	W	25.00	27.06	6.5	6.5	6.0	6.0		7.0	7.0	6.5	6.5	
	2141	0	8333	ECON4	W	25.00	29.67	6.5	6.5	6.0	6.0		7.7	7.7	7.1	7.1	
Electronics	2431	0	425	ELEC1	W	17.50	14.39	8.0	8.0	1.5			6.6	6.6	1.2		
	2431	0	425	ELEC2	W	17.50	17.48	8.0	8.0	1.5			8.0	8.0	1.5		
	2431	0	425	ELEC3	C	15.00	9.70	1.5	1.5	12.0			1.0	1.0	7.8		
	2431	0	425	ELEC4	W	17.50	22.00	7.0	9.0	1.5			8.8	11.3	1.9		
	2431	0	425	ELEC5	W	17.50	21.07	7.0	9.0	1.5			8.4	10.8	1.8		
	2431	0	425	ELEC6	C	15.00	15.35	2.0	1.0	12.0			2.0	1.0	12.3		
English Language & Literature A	2721	0	5174	ELLA1	W	25.00	21.04	10.0	5.0	0.0	10.0		8.4	4.2	0.0	8.4	
	2721	0	5174	ELLA2	W	25.00	22.24	5.0	10.0	10.0	0.0		4.4	8.9	8.9	0.0	
	2721	0	5174	ELLA3	W	30.00	36.47	4.5	13.5	4.5	7.5		5.5	16.4	5.5	9.1	
	2721	0	5174	ELLA4	C	20.00	20.24	10.0	0.0	10.0	0.0		10.1	0.0	10.1	0.0	
English Language & Literature B	2726	0	5503	ELLB1	W	30.00	27.30	10.0	10.0	10.0	0.0		9.1	9.1	9.1	0.0	
	2726	0	5503	ELLB2	C	20.00	18.47	5.0	3.8	3.8	7.5		4.6	3.5	3.5	6.9	
	2726	0	5503	ELLB3	W	30.00	32.71	7.5	10.0	7.5	5.0		8.2	10.9	8.2	5.5	
	2726	0	5503	ELLB4	C	20.00	21.52	0.0	5.0	5.0	10.0		0.0	5.4	5.4	10.8	
English Language A	2701	0	3404	ENGA1	W	30.00	24.33	10.0	10.0	10.0	0.0		8.1	8.1	8.1	0.0	
	2701	0	3404	ENGA2	C	20.00	17.95	3.3	0.0	6.7	10.0		3.0	0.0	6.0	9.0	
	2701	0	3404	ENGA3	W	30.00	32.20	6.7	13.3	10.0	0.0		7.2	14.3	10.7	0.0	
	2701	0	3404	ENGA4	C	20.00	25.51	3.3	3.3	3.3	10.0		4.2	4.2	4.2	12.8	
English Language B	2706	0	15504	ENGB1	W	30.00	27.01	5.0	10.0	15.0	0.0		4.5	9.0	13.5	0.0	

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2706	0	15504	ENGB2	C	20.00	18.51	2.5	2.5	2.5	12.5		2.3	2.3	2.3	11.6	
	2706	0	15504	ENGB3	W	30.00	31.36	15.0	10.0	5.0	0.0		15.7	10.5	5.2	0.0	
	2706	0	15504	ENGB4	C	20.00	23.12	5.0	5.0	2.5	7.5		5.8	5.8	2.9	8.7	
English Literature A	2741	0	2456	LTA1A	W	30.00	28.44	6.0	9.0	6.0	9.0		5.7	8.5	5.7	8.5	
	2741	0	2456	LITA2	C	20.00	16.06	6.0	7.0	5.0	2.0		4.8	5.6	4.0	1.6	
	2741	0	2456	LITA3	W	30.00	35.09	7.5	7.5	7.5	7.5		8.8	8.8	8.8	8.8	
	2741	0	2456	LITA4	C	20.00	20.41	6.0	6.0	6.0	2.0		6.1	6.1	6.1	2.0	
English Literature A	2741	1	3766	LTA1B	W	30.00	26.89	6.0	9.0	6.0	9.0		5.4	8.1	5.4	8.1	
	2741	1	3766	LITA2	C	20.00	16.81	6.0	7.0	5.0	2.0		5.0	5.9	4.2	1.7	
	2741	1	3766	LITA3	W	30.00	35.50	7.5	7.5	7.5	7.5		8.9	8.9	8.9	8.9	
	2741	1	3766	LITA4	C	20.00	20.81	6.0	6.0	6.0	2.0		6.2	6.2	6.2	2.1	
English Literature A	2741	2	4389	LTA1C	W	30.00	26.85	6.0	9.0	6.0	9.0		5.4	8.1	5.4	8.1	
	2741	2	4389	LITA2	C	20.00	16.71	6.0	7.0	5.0	2.0		5.0	5.8	4.2	1.7	
	2741	2	4389	LITA3	W	30.00	35.61	7.5	7.5	7.5	7.5		8.9	8.9	8.9	8.9	
	2741	2	4389	LITA4	C	20.00	20.83	6.0	6.0	6.0	2.0		6.2	6.2	6.2	2.1	
English Literature B	2746	0	16398	LITB1	W	30.00	30.31	5.0	12.5	10.0	2.5		5.1	12.6	10.1	2.5	
	2746	0	16398	LITB2	C	20.00	16.43	5.0	5.0	5.0	5.0		4.1	4.1	4.1	4.1	
	2746	0	16398	LITB3	W	30.00	32.92	7.5	7.5	7.5	7.5		8.2	8.2	8.2	8.2	
	2746	0	16398	LITB4	C	20.00	20.34	5.0	5.0	5.0	5.0		5.1	5.1	5.1	5.1	
Environmental Studies	2441	0	1559	ENVS1	W	20.00	14.43	9.0	8.0	3.0			6.5	5.8	2.2		
	2441	0	1559	ENVS2	W	30.00	26.14	11.0	12.0	7.0			9.6	10.5	6.1		
	2441	0	1559	ENVS3	W	25.00	30.87	8.4	12.5	4.1			10.4	15.4	5.1		
	2441	0	1559	ENVS4	W	25.00	28.56	6.6	12.5	5.9			7.5	14.3	6.7		
French	2651	0	3627	FREN1	W	35.00	36.75	11.0	16.0	8.0			11.5	16.8	8.4		
	2651	0	3627	FRE2T	O	15.00	9.49	7.0	3.0	5.0			4.4	1.9	3.2		
	2651	0	3627	FREN3	W	35.00	39.11	8.0	19.0	8.0			8.9	21.2	8.9		
	2651	0	3627	FRE4T	O	15.00	14.66	7.0	4.0	4.0			6.8	3.9	3.9		

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
French	2651	1	331	FREN1	W	35.00	34.57	11.0	16.0	8.0		10.9	15.8	7.9			
	2651	1	331	FRE2V	O	15.00	10.73	7.0	3.0	5.0		5.0	2.1	3.6			
	2651	1	331	FREN3	W	35.00	39.69	8.0	19.0	8.0		9.1	21.5	9.1			
	2651	1	331	FRE4T	O	15.00	15.01	7.0	4.0	4.0		7.0	4.0	4.0			
French	2651	2	454	FREN1	W	35.00	36.29	11.0	16.0	8.0		11.4	16.6	8.3			
	2651	2	454	FRE2T	O	15.00	9.02	7.0	3.0	5.0		4.2	1.8	3.0			
	2651	2	454	FREN3	W	35.00	39.46	8.0	19.0	8.0		9.0	21.4	9.0			
	2651	2	454	FRE4V	O	15.00	15.23	7.0	4.0	4.0		7.1	4.1	4.1			
French	2651	3	2183	FREN1	W	35.00	35.44	11.0	16.0	8.0		11.1	16.2	8.1			
	2651	3	2183	FRE2V	O	15.00	9.92	7.0	3.0	5.0		4.6	2.0	3.3			
	2651	3	2183	FREN3	W	35.00	39.27	8.0	19.0	8.0		9.0	21.3	9.0			
	2651	3	2183	FRE4V	O	15.00	15.36	7.0	4.0	4.0		7.2	4.1	4.1			
General Studies A	2761	0	18686	GENA1	OTQ/W	25.00	19.34	7.5	10.0	3.5	4.0	5.8	7.7	2.7	3.1		
	2761	0	18686	GENA2	OTQ/W	25.00	20.57	9.0	8.5	3.5	4.0	7.4	7.0	2.9	3.3		
	2761	0	18686	GENA3	W	25.00	31.08	7.0	8.0	5.0	5.0	8.7	9.9	6.2	6.2		
	2761	0	18686	GENA4	W	25.00	29.01	6.5	9.0	5.0	4.5	7.5	10.4	5.8	5.2		
General Studies B	2766	0	5111	GENB1	W	25.00	20.69	8.3	8.3	3.3	5.0	6.9	6.9	2.7	4.1		
	2766	0	5111	GENB2	W	25.00	21.30	8.3	8.3	3.3	5.0	7.1	7.1	2.8	4.3		
	2766	0	5111	GENB3	W	25.00	28.16	6.3	8.8	5.0	5.0	7.0	9.9	5.6	5.6		
	2766	0	5111	GENB4	W	25.00	29.84	6.3	8.8	5.0	5.0	7.5	10.4	6.0	6.0		
Geography	2031	0	6691	GEOG1	W	35.00	38.14	18.1	14.0	2.9		19.7	15.3	3.2			
	2031	0	6691	GEOG2	W	15.00	10.51	1.8	3.6	9.6		1.3	2.5	6.7			
	2031	0	6691	GEOG3	W	30.00	33.17	10.0	13.3	6.7		11.1	14.7	7.4			
	2031	0	6691	GEO4A	W	20.00	18.18	3.3	6.7	10.0		3.0	6.1	9.1			
Geography	2031	1	7610	GEOG1	W	35.00	36.99	18.1	14.0	2.9		19.1	14.8	3.1			
	2031	1	7610	GEOG2	W	15.00	10.35	1.8	3.6	9.6		1.2	2.5	6.6			
	2031	1	7610	GEOG3	W	30.00	32.92	10.0	13.3	6.7		11.0	14.6	7.4			

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2031	1	7610	GEO4B	W	20.00	19.75	3.3	6.7	10.0		3.3	6.6	9.9			
German	2661	0	1427	GERM1	W	35.00	34.97	11.0	16.0	8.0		11.0	16.0	8.0			
	2661	0	1427	GER2T	O	15.00	10.95	7.0	3.0	5.0		5.1	2.2	3.7			
	2661	0	1427	GERM3	W	35.00	38.56	8.0	19.0	8.0		8.8	20.9	8.8			
	2661	0	1427	GER4T	O	15.00	15.52	7.0	4.0	4.0		7.2	4.1	4.1			
German	2661	2	146	GERM1	W	35.00	32.76	11.0	16.0	8.0		10.3	15.0	7.5			
	2661	2	146	GER2T	O	15.00	11.67	7.0	3.0	5.0		5.4	2.3	3.9			
	2661	2	146	GERM3	W	35.00	38.07	8.0	19.0	8.0		8.7	20.7	8.7			
	2661	2	146	GER4V	O	15.00	17.50	7.0	4.0	4.0		8.2	4.7	4.7			
German	2661	3	623	GERM1	W	35.00	34.13	11.0	16.0	8.0		10.7	15.6	7.8			
	2661	3	623	GER2V	O	15.00	11.69	7.0	3.0	5.0		5.5	2.3	3.9			
	2661	3	623	GERM3	W	35.00	36.17	8.0	19.0	8.0		8.3	19.6	8.3			
	2661	3	623	GER4V	O	15.00	18.01	7.0	4.0	4.0		8.4	4.8	4.8			
Government & Politics	2151	0	2504	GOVP1	W	25.00	18.92	12.5	7.5	5.0		9.5	5.7	3.8			
	2151	0	2504	GOVP2	W	25.00	23.12	12.5	7.5	5.0		11.6	6.9	4.6			
	2151	0	2504	GOV3A	W	25.00	27.87	10.0	10.0	5.0		11.1	11.1	5.6			
	2151	0	2504	GOV4A	W	25.00	30.09	10.0	10.0	5.0		12.0	12.0	6.0			
Government & Politics	2151	3	714	GOVP1	W	25.00	19.47	12.5	7.5	5.0		9.7	5.8	3.9			
	2151	3	714	GOVP2	W	25.00	23.67	12.5	7.5	5.0		11.8	7.1	4.7			
	2151	3	714	GOV3B	W	25.00	28.05	10.0	10.0	5.0		11.2	11.2	5.6			
	2151	3	714	GOV4A	W	25.00	28.81	10.0	10.0	5.0		11.5	11.5	5.8			
Government & Politics	2151	4	320	GOVP1	W	25.00	18.02	12.5	7.5	5.0		9.0	5.4	3.6			
	2151	4	320	GOVP2	W	25.00	23.61	12.5	7.5	5.0		11.8	7.1	4.7			
	2151	4	320	GOV3B	W	25.00	28.84	10.0	10.0	5.0		11.5	11.5	5.8			
	2151	4	320	GOV4B	W	25.00	29.53	10.0	10.0	5.0		11.8	11.8	5.9			
History	2041	0	266	HIS1A	W	25.00	21.12	12.5	8.5	0.0	4.0	10.6	7.2	0.0	3.4		
	2041	0	266	HIS2A	W	25.00	21.41	4.0	10.0	6.5	4.5	3.4	8.6	5.6	3.9		

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2041	0	266	HIS3A	W	30.00	35.67	9.0	9.0	0.0	12.0		10.7	10.7	0.0	14.3	
	2041	0	266	HIS4X	C	20.00	21.80	5.0	7.0	3.0	5.0		5.4	7.6	3.3	5.4	
History	2041	254	121	HIS1B	W	25.00	20.45	12.5	8.5	0.0	4.0		10.2	7.0	0.0	3.3	
	2041	254	121	HIS2C	W	25.00	20.59	4.0	10.0	6.5	4.5		3.3	8.2	5.4	3.7	
	2041	254	121	HIS3B	W	30.00	34.51	9.0	9.0	0.0	12.0		10.4	10.4	0.0	13.8	
	2041	254	121	HIS4X	C	20.00	24.46	5.0	7.0	3.0	5.0		6.1	8.6	3.7	6.1	
History	2041	262	350	HIS1B	W	25.00	19.73	12.5	8.5	0.0	4.0		9.9	6.7	0.0	3.2	
	2041	262	350	HIS2L	W	25.00	21.44	4.0	10.0	6.5	4.5		3.4	8.6	5.6	3.9	
	2041	262	350	HIS3B	W	30.00	36.29	9.0	9.0	0.0	12.0		10.9	10.9	0.0	14.5	
	2041	262	350	HIS4X	C	20.00	22.54	5.0	7.0	3.0	5.0		5.6	7.9	3.4	5.6	
History	2041	263	228	HIS1B	W	25.00	20.20	12.5	8.5	0.0	4.0		10.1	6.9	0.0	3.2	
	2041	263	228	HIS2M	W	25.00	21.50	4.0	10.0	6.5	4.5		3.4	8.6	5.6	3.9	
	2041	263	228	HIS3B	W	30.00	35.59	9.0	9.0	0.0	12.0		10.7	10.7	0.0	14.2	
	2041	263	228	HIS4X	C	20.00	22.71	5.0	7.0	3.0	5.0		5.7	8.0	3.4	5.7	
History	2041	267	189	HIS1B	W	25.00	22.45	12.5	8.5	0.0	4.0		11.2	7.6	0.0	3.6	
	2041	267	189	HIS2Q	W	25.00	16.16	4.0	10.0	6.5	4.5		2.6	6.5	4.2	2.9	
	2041	267	189	HIS3B	W	30.00	41.37	9.0	9.0	0.0	12.0		12.4	12.4	0.0	16.5	
	2041	267	189	HIS4X	C	20.00	20.02	5.0	7.0	3.0	5.0		5.0	7.0	3.0	5.0	
History	2041	271	514	HIS1C	W	25.00	20.69	12.5	8.5	0.0	4.0		10.3	7.0	0.0	3.3	
	2041	271	514	HIS2B	W	25.00	19.51	4.0	10.0	6.5	4.5		3.1	7.8	5.1	3.5	
	2041	271	514	HIS3B	W	30.00	38.12	9.0	9.0	0.0	12.0		11.4	11.4	0.0	15.2	
	2041	271	514	HIS4X	C	20.00	21.67	5.0	7.0	3.0	5.0		5.4	7.6	3.3	5.4	
History	2041	372	125	HIS1H	W	25.00	18.77	12.5	8.5	0.0	4.0		9.4	6.4	0.0	3.0	
	2041	372	125	HIS2N	W	25.00	21.56	4.0	10.0	6.5	4.5		3.4	8.6	5.6	3.9	
	2041	372	125	HIS3B	W	30.00	41.07	9.0	9.0	0.0	12.0		12.3	12.3	0.0	16.4	
	2041	372	125	HIS4X	C	20.00	18.61	5.0	7.0	3.0	5.0		4.7	6.5	2.8	4.7	
History	2041	505	175	HIS1C	W	25.00	18.53	12.5	8.5	0.0	4.0		9.3	6.3	0.0	3.0	
	2041	505	175	HIS2B	W	25.00	23.66	4.0	10.0	6.5	4.5		3.8	9.5	6.2	4.3	

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
History	2041	505	175	HIS3C	W	30.00	38.35	9.0	9.0	0.0	12.0		11.5	11.5	0.0	15.3	
	2041	505	175	HIS4X	C	20.00	19.45	5.0	7.0	3.0	5.0		4.9	6.8	2.9	4.9	
	2041	777	132	HIS1E	W	25.00	17.05	12.5	8.5	0.0	4.0		8.5	5.8	0.0	2.7	
	2041	777	132	HIS2D	W	25.00	22.97	4.0	10.0	6.5	4.5		3.7	9.2	6.0	4.1	
	2041	777	132	HIS3D	W	30.00	40.06	9.0	9.0	0.0	12.0		12.0	12.0	0.0	16.0	
History	2041	777	132	HIS4X	C	20.00	19.92	5.0	7.0	3.0	5.0		5.0	7.0	3.0	5.0	
	2041	1541	107	HIS1H	W	25.00	21.68	12.5	8.5	0.0	4.0		10.8	7.4	0.0	3.5	
	2041	1541	107	HIS2M	W	25.00	17.52	4.0	10.0	6.5	4.5		2.8	7.0	4.6	3.2	
	2041	1541	107	HIS3G	W	30.00	38.31	9.0	9.0	0.0	12.0		11.5	11.5	0.0	15.3	
History	2041	1541	107	HIS4X	C	20.00	22.49	5.0	7.0	3.0	5.0		5.6	7.9	3.4	5.6	
	2041	2005	217	HIS1H	W	25.00	20.74	12.5	8.5	0.0	4.0		10.4	7.1	0.0	3.3	
	2041	2005	217	HIS2H	W	25.00	18.60	4.0	10.0	6.5	4.5		3.0	7.4	4.8	3.3	
	2041	2005	217	HIS3J	W	30.00	40.24	9.0	9.0	0.0	12.0		12.1	12.1	0.0	16.1	
History	2041	2005	217	HIS4X	C	20.00	20.43	5.0	7.0	3.0	5.0		5.1	7.1	3.1	5.1	
	2041	2095	139	HIS1N	W	25.00	24.02	12.5	8.5	0.0	4.0		12.0	8.2	0.0	3.8	
	2041	2095	139	HIS2H	W	25.00	19.96	4.0	10.0	6.5	4.5		3.2	8.0	5.2	3.6	
	2041	2095	139	HIS3J	W	30.00	41.00	9.0	9.0	0.0	12.0		12.3	12.3	0.0	16.4	
History	2041	2095	139	HIS4X	C	20.00	15.02	5.0	7.0	3.0	5.0		3.8	5.3	2.3	3.8	
	2041	2139	145	HIS1B	W	25.00	21.93	12.5	8.5	0.0	4.0		11.0	7.5	0.0	3.5	
	2041	2139	145	HIS2Q	W	25.00	19.24	4.0	10.0	6.5	4.5		3.1	7.7	5.0	3.5	
	2041	2139	145	HIS3K	W	30.00	35.02	9.0	9.0	0.0	12.0		10.5	10.5	0.0	14.0	
History	2041	2139	145	HIS4X	C	20.00	23.82	5.0	7.0	3.0	5.0		6.0	8.3	3.6	6.0	
	2041	2711	103	HIS1H	W	25.00	18.49	12.5	8.5	0.0	4.0		9.2	6.3	0.0	3.0	
	2041	2711	103	HIS2M	W	25.00	21.64	4.0	10.0	6.5	4.5		3.5	8.7	5.6	3.9	
	2041	2711	103	HIS3M	W	30.00	35.87	9.0	9.0	0.0	12.0		10.8	10.8	0.0	14.3	
History	2041	2711	103	HIS4X	C	20.00	24.00	5.0	7.0	3.0	5.0		6.0	8.4	3.6	6.0	
	2041	2715	100	HIS1H	W	25.00	19.60	12.5	8.5	0.0	4.0		9.8	6.7	0.0	3.1	
	2041	2715	100	HIS2Q	W	25.00	26.08	4.0	10.0	6.5	4.5		4.2	10.4	6.8	4.7	

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2041	2715	100	HIS3M	W	30.00	36.24	9.0	9.0	0.0	12.0		10.9	10.9	0.0	14.5	
	2041	2715	100	HIS4X	C	20.00	18.08	5.0	7.0	3.0	5.0		4.5	6.3	2.7	4.5	
History	2041	2716	239	HIS1H	W	25.00	22.46	12.5	8.5	0.0	4.0		11.2	7.6	0.0	3.6	
	2041	2716	239	HIS2R	W	25.00	18.71	4.0	10.0	6.5	4.5		3.0	7.5	4.9	3.4	
	2041	2716	239	HIS3M	W	30.00	36.87	9.0	9.0	0.0	12.0		11.1	11.1	0.0	14.7	
	2041	2716	239	HIS4X	C	20.00	21.95	5.0	7.0	3.0	5.0		5.5	7.7	3.3	5.5	
History	2041	2764	127	HIS1L	W	25.00	22.02	12.5	8.5	0.0	4.0		11.0	7.5	0.0	3.5	
	2041	2764	127	HIS2L	W	25.00	20.01	4.0	10.0	6.5	4.5		3.2	8.0	5.2	3.6	
	2041	2764	127	HIS3M	W	30.00	37.39	9.0	9.0	0.0	12.0		11.2	11.2	0.0	15.0	
	2041	2764	127	HIS4X	C	20.00	20.59	5.0	7.0	3.0	5.0		5.1	7.2	3.1	5.1	
History	2041	2765	134	HIS1L	W	25.00	21.14	12.5	8.5	0.0	4.0		10.6	7.2	0.0	3.4	
	2041	2765	134	HIS2M	W	25.00	16.93	4.0	10.0	6.5	4.5		2.7	6.8	4.4	3.0	
	2041	2765	134	HIS3M	W	30.00	37.27	9.0	9.0	0.0	12.0		11.2	11.2	0.0	14.9	
	2041	2765	134	HIS4X	C	20.00	24.65	5.0	7.0	3.0	5.0		6.2	8.6	3.7	6.2	
History	2041	2769	127	HIS1L	W	25.00	25.05	12.5	8.5	0.0	4.0		12.5	8.5	0.0	4.0	
	2041	2769	127	HIS2Q	W	25.00	12.98	4.0	10.0	6.5	4.5		2.1	5.2	3.4	2.3	
	2041	2769	127	HIS3M	W	30.00	41.79	9.0	9.0	0.0	12.0		12.5	12.5	0.0	16.7	
	2041	2769	127	HIS4X	C	20.00	20.17	5.0	7.0	3.0	5.0		5.0	7.1	3.0	5.0	
History	2041	2783	137	HIS1M	W	25.00	20.52	12.5	8.5	0.0	4.0		10.3	7.0	0.0	3.3	
	2041	2783	137	HIS2M	W	25.00	21.72	4.0	10.0	6.5	4.5		3.5	8.7	5.6	3.9	
	2041	2783	137	HIS3M	W	30.00	32.91	9.0	9.0	0.0	12.0		9.9	9.9	0.0	13.2	
	2041	2783	137	HIS4X	C	20.00	24.85	5.0	7.0	3.0	5.0		6.2	8.7	3.7	6.2	
History	2041	2788	134	HIS1M	W	25.00	20.47	12.5	8.5	0.0	4.0		10.2	7.0	0.0	3.3	
	2041	2788	134	HIS2R	W	25.00	24.34	4.0	10.0	6.5	4.5		3.9	9.7	6.3	4.4	
	2041	2788	134	HIS3M	W	30.00	34.50	9.0	9.0	0.0	12.0		10.4	10.4	0.0	13.8	
	2041	2788	134	HIS4X	C	20.00	20.68	5.0	7.0	3.0	5.0		5.2	7.2	3.1	5.2	
History	2041	2805	129	HIS1N	W	25.00	24.94	12.5	8.5	0.0	4.0		12.5	8.5	0.0	4.0	
	2041	2805	129	HIS2Q	W	25.00	20.57	4.0	10.0	6.5	4.5		3.3	8.2	5.3	3.7	

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2041	2805	129	HIS3M	W	30.00	33.39	9.0	9.0	0.0	12.0		10.0	10.0	0.0	13.4	
	2041	2805	129	HIS4X	C	20.00	21.11	5.0	7.0	3.0	5.0		5.3	7.4	3.2	5.3	
History	2041	2999	168	HIS1L	W	25.00	22.36	12.5	8.5	0.0	4.0		11.2	7.6	0.0	3.6	
	2041	2999	168	HIS2M	W	25.00	22.44	4.0	10.0	6.5	4.5		3.6	9.0	5.8	4.0	
	2041	2999	168	HIS3N	W	30.00	29.89	9.0	9.0	0.0	12.0		9.0	9.0	0.0	12.0	
	2041	2999	168	HIS4X	C	20.00	25.31	5.0	7.0	3.0	5.0		6.3	8.9	3.8	6.3	
History	2041	3003	106	HIS1L	W	25.00	22.35	12.5	8.5	0.0	4.0		11.2	7.6	0.0	3.6	
	2041	3003	106	HIS2Q	W	25.00	27.93	4.0	10.0	6.5	4.5		4.5	11.2	7.3	5.0	
	2041	3003	106	HIS3N	W	30.00	24.10	9.0	9.0	0.0	12.0		7.2	7.2	0.0	9.6	
	2041	3003	106	HIS4X	C	20.00	25.61	5.0	7.0	3.0	5.0		6.4	9.0	3.8	6.4	
History	2041	3022	189	HIS1M	W	25.00	15.79	12.5	8.5	0.0	4.0		7.9	5.4	0.0	2.5	
	2041	3022	189	HIS2R	W	25.00	20.84	4.0	10.0	6.5	4.5		3.3	8.3	5.4	3.8	
	2041	3022	189	HIS3N	W	30.00	39.04	9.0	9.0	0.0	12.0		11.7	11.7	0.0	15.6	
	2041	3022	189	HIS4X	C	20.00	24.33	5.0	7.0	3.0	5.0		6.1	8.5	3.6	6.1	
History of Art	2251	0	892	HART1	W	20.00	13.90	6.5	6.5	7.0	0.0		4.5	4.5	4.9	0.0	
	2251	0	892	HART2	W	30.00	25.09	10.0	10.0	10.0	0.0		8.4	8.4	8.4	0.0	
	2251	0	892	HART3	W	25.00	28.20	6.0	6.5	6.5	6.0		6.8	7.3	7.3	6.8	
	2251	0	892	HART4	W	25.00	32.80	6.5	6.0	6.5	6.0		8.5	7.9	8.5	7.9	
Human Biology	2406	0	594	HBIO1	W	20.00	16.98	9.0	8.0	3.0			7.6	6.8	2.5		
	2406	0	594	HBIO2	W	20.00	16.45	9.0	8.0	3.0			7.4	6.6	2.5		
	2406	0	594	HBI3T	C	10.00	7.95	1.5	1.5	7.0			1.2	1.2	5.6		
	2406	0	594	HBIO4	W	20.00	24.31	7.0	10.0	3.0			8.5	12.2	3.6		
	2406	0	594	HBIO5	W	20.00	26.10	7.0	10.0	3.0			9.1	13.0	3.9		
	2406	0	594	HBI6T	C	10.00	8.22	1.5	1.5	7.0			1.2	1.2	5.8		
Human Biology	2406	3	198	HBIO1	W	20.00	17.49	9.0	8.0	3.0			7.9	7.0	2.6		
	2406	3	198	HBIO2	W	20.00	15.98	9.0	8.0	3.0			7.2	6.4	2.4		
	2406	3	198	HBI3X	EAP	10.00	6.70	1.5	1.5	7.0			1.0	1.0	4.7		

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2406	3	198	HBIO4	W	20.00	24.01	7.0	10.0	3.0		8.4	12.0	3.6			
	2406	3	198	HBIO5	W	20.00	27.10	7.0	10.0	3.0		9.5	13.6	4.1			
	2406	3	198	HBI6X	EAP	10.00	8.72	1.5	1.5	7.0		1.3	1.3	6.1			
ICT	2521	0	3817	INFO1	W	25.00	20.08	7.5	17.5			6.0	14.1				
	2521	0	3817	INFO2	W	25.00	20.63	22.5	2.5			18.6	2.1				
	2521	0	3817	INFO3	W	30.00	38.58	15.0	15.0			19.3	19.3				
	2521	0	3817	INFO4	C	20.00	20.70	5.0	15.0			5.2	15.5				
Law	2161	0	7412	LAW01	W	25.00	20.31	15.6	7.8	1.6		12.7	6.3	1.3			
	2161	0	7412	LAW02	W	25.00	22.08	11.7	12.2	1.1		10.3	10.8	0.9			
	2161	0	7412	LAW03	W	25.00	26.94	9.4	14.1	1.6		10.1	15.2	1.7			
	2161	0	7412	LAW04	W	25.00	30.68	10.3	13.2	1.5		12.6	16.2	1.8			
Media Studies	2571	0	6986	MEST1	W	25.00	21.72	15.0	10.0	0.0	0.0	13.0	8.7	0.0	0.0		
	2571	0	6986	MEST2	C	25.00	24.36	0.0	5.0	15.0	5.0	0.0	4.9	14.6	4.9		
	2571	0	6986	MEST3	W	25.00	24.59	10.0	15.0	0.0	0.0	9.8	14.8	0.0	0.0		
	2571	0	6986	MEST4	C	25.00	29.32	5.0	0.0	10.0	10.0	5.9	0.0	11.7	11.7		
Music	2271	0	362	MUSC1	W	15.00	14.98	0.0	0.0	15.0		0.0	0.0	15.0			
	2271	0	362	MUS2A	EAC	15.00	10.47	0.0	15.0	0.0		0.0	10.5	0.0			
	2271	0	362	MUSC3	C	20.00	13.92	20.0	0.0	0.0		13.9	0.0	0.0			
	2271	0	362	MUSC4	W	20.00	26.64	0.0	0.0	20.0		0.0	0.0	26.6			
	2271	0	362	MUS5A	EAC	15.00	17.63	0.0	15.0	0.0		0.0	17.6	0.0			
	2271	0	362	MUSC6	EAC	15.00	16.37	15.0	0.0	0.0		16.4	0.0	0.0			
Music	2271	3	104	MUSC1	W	15.00	12.35	0.0	0.0	15.0		0.0	0.0	12.4			
	2271	3	104	MUS2A	EAC	15.00	13.60	0.0	15.0	0.0		0.0	13.6	0.0			
	2271	3	104	MUSC3	C	20.00	12.76	20.0	0.0	0.0		12.8	0.0	0.0			
	2271	3	104	MUSC4	W	20.00	26.20	0.0	0.0	20.0		0.0	0.0	26.2			
	2271	3	104	MUS5B	EAC	15.00	21.31	0.0	15.0	0.0		0.0	21.3	0.0			
	2271	3	104	MUSC6	EAC	15.00	13.78	15.0	0.0	0.0		13.8	0.0	0.0			

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Music	2271	4	526	MUSC1	W	15.00	14.18	0.0	0.0	15.0		0.0	0.0	14.2			
	2271	4	526	MUS2B	EAC	15.00	11.62	0.0	15.0	0.0		0.0	11.6	0.0			
	2271	4	526	MUSC3	C	20.00	13.33	20.0	0.0	0.0		13.3	0.0	0.0			
	2271	4	526	MUSC4	W	20.00	27.04	0.0	0.0	20.0		0.0	0.0	27.0			
	2271	4	526	MUS5B	EAC	15.00	18.19	0.0	15.0	0.0		0.0	18.2	0.0			
	2271	4	526	MUSC6	EAC	15.00	15.65	15.0	0.0	0.0		15.7	0.0	0.0			
Panjabi	2681	0	194	PANJ1	W	50.00	35.23		37.5	12.5			26.4	8.8			
	2681	0	194	PANJ2	W	50.00	64.77		37.5	12.5			48.6	16.2			
Philosophy	2171	0	3270	PHIL1	W	25.00	21.38	10.0	10.0	5.0		8.6	8.6	4.3			
	2171	0	3270	PHIL2	W	25.00	20.66	10.0	10.0	5.0		8.3	8.3	4.1			
	2171	0	3270	PHIL3	W	30.00	35.41	9.0	9.0	12.0		10.6	10.6	14.2			
	2171	0	3270	PHIL4	W	20.00	22.55	6.0	6.0	8.0		6.8	6.8	9.0			
Physical Education	2581	0	7725	PHED1	W	30.00	34.02	20.0	0.0	10.0		22.7	0.0	11.3			
	2581	0	7725	PHED2	C	20.00	9.33	0.0	20.0	0.0		0.0	9.3	0.0			
	2581	0	7725	PHED3	W	30.00	37.24	20.0	0.0	10.0		24.8	0.0	12.4			
	2581	0	7725	PHED4	C	20.00	19.41	0.0	15.0	5.0		0.0	14.6	4.9			
Physics A	2451	0	3462	PHYA1	W	20.00	15.34	9.5	9.5	1.0		7.3	7.3	0.8			
	2451	0	3462	PHYA2	W	20.00	16.81	9.5	9.5	1.0		8.0	8.0	0.8			
	2451	0	3462	PHA3T	C	10.00	5.74	1.0	1.0	8.0		0.6	0.6	4.6			
	2451	0	3462	PHYA4	OTQ/W	20.00	25.70	7.0	12.0	1.0		9.0	15.4	1.3			
	2451	0	3462	PHA5A	W	20.00	27.66	7.0	12.0	1.0		9.7	16.6	1.4			
	2451	0	3462	PHA6T	C	10.00	8.75	1.0	1.0	8.0		0.9	0.9	7.0			
Physics A	2451	1	889	PHYA1	W	20.00	15.59	9.5	9.5	1.0		7.4	7.4	0.8			
	2451	1	889	PHYA2	W	20.00	16.92	9.5	9.5	1.0		8.0	8.0	0.8			
	2451	1	889	PHA3T	C	10.00	5.80	1.0	1.0	8.0		0.6	0.6	4.6			
	2451	1	889	PHYA4	OTQ/W	20.00	24.98	7.0	12.0	1.0		8.7	15.0	1.2			
	2451	1	889	PHA5B	W	20.00	27.82	7.0	12.0	1.0		9.7	16.7	1.4			

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Physics A	2451	1	889	PHA6T	C	10.00	8.89	1.0	1.0	8.0				0.9	0.9	7.1	
	2451	2	1348	PHYA1	W	20.00	15.49	9.5	9.5	1.0				7.4	7.4	0.8	
	2451	2	1348	PHYA2	W	20.00	15.96	9.5	9.5	1.0				7.6	7.6	0.8	
	2451	2	1348	PHA3T	C	10.00	6.19	1.0	1.0	8.0				0.6	0.6	5.0	
	2451	2	1348	PHYA4	OTQ/W	20.00	25.53	7.0	12.0	1.0				8.9	15.3	1.3	
	2451	2	1348	PHA5C	W	20.00	28.00	7.0	12.0	1.0				9.8	16.8	1.4	
	2451	2	1348	PHA6T	C	10.00	8.82	1.0	1.0	8.0				0.9	0.9	7.1	
Physics A	2451	3	2806	PHYA1	W	20.00	14.81	9.5	9.5	1.0				7.0	7.0	0.7	
	2451	3	2806	PHYA2	W	20.00	16.34	9.5	9.5	1.0				7.8	7.8	0.8	
	2451	3	2806	PHA3T	C	10.00	5.63	1.0	1.0	8.0				0.6	0.6	4.5	
	2451	3	2806	PHYA4	OTQ/W	20.00	24.99	7.0	12.0	1.0				8.7	15.0	1.2	
	2451	3	2806	PHA5D	W	20.00	28.88	7.0	12.0	1.0				10.1	17.3	1.4	
	2451	3	2806	PHA6T	C	10.00	9.35	1.0	1.0	8.0				0.9	0.9	7.5	
Physics A	2451	4	205	PHYA1	W	20.00	14.99	9.5	9.5	1.0				7.1	7.1	0.7	
	2451	4	205	PHYA2	W	20.00	15.76	9.5	9.5	1.0				7.5	7.5	0.8	
	2451	4	205	PHA3T	C	10.00	5.42	1.0	1.0	8.0				0.5	0.5	4.3	
	2451	4	205	PHYA4	OTQ/W	20.00	24.89	7.0	12.0	1.0				8.7	14.9	1.2	
	2451	4	205	PHA5A	W	20.00	27.40	7.0	12.0	1.0				9.6	16.4	1.4	
	2451	4	205	PHA6X	EAP	10.00	11.53	1.0	1.0	8.0				1.2	1.2	9.2	
Physics A	2451	7	167	PHYA1	W	20.00	14.86	9.5	9.5	1.0				7.1	7.1	0.7	
	2451	7	167	PHYA2	W	20.00	15.68	9.5	9.5	1.0				7.4	7.4	0.8	
	2451	7	167	PHA3T	C	10.00	5.76	1.0	1.0	8.0				0.6	0.6	4.6	
	2451	7	167	PHYA4	OTQ/W	20.00	23.89	7.0	12.0	1.0				8.4	14.3	1.2	
	2451	7	167	PHA5D	W	20.00	27.80	7.0	12.0	1.0				9.7	16.7	1.4	
	2451	7	167	PHA6X	EAP	10.00	12.01	1.0	1.0	8.0				1.2	1.2	9.6	
Physics A	2451	8	113	PHYA1	W	20.00	15.17	9.5	9.5	1.0				7.2	7.2	0.8	
	2451	8	113	PHYA2	W	20.00	16.93	9.5	9.5	1.0				8.0	8.0	0.8	
	2451	8	113	PHA3X	EAP	10.00	6.72	1.0	1.0	8.0				0.7	0.7	5.4	

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2451	8	113	PHYA4	OTQ/W	20.00	25.69	7.0	12.0	1.0			9.0	15.4	1.3		
	2451	8	113	PHA5A	W	20.00	27.46	7.0	12.0	1.0			9.6	16.5	1.4		
	2451	8	113	PHA6T	C	10.00	8.02	1.0	1.0	8.0			0.8	0.8	6.4		
Physics A	2451	10	152	PHYA1	W	20.00	13.40	9.5	9.5	1.0			6.4	6.4	0.7		
	2451	10	152	PHYA2	W	20.00	15.80	9.5	9.5	1.0			7.5	7.5	0.8		
	2451	10	152	PHA3X	EAP	10.00	7.43	1.0	1.0	8.0			0.7	0.7	5.9		
	2451	10	152	PHYA4	OTQ/W	20.00	26.50	7.0	12.0	1.0			9.3	15.9	1.3		
	2451	10	152	PHA5C	W	20.00	26.27	7.0	12.0	1.0			9.2	15.8	1.3		
	2451	10	152	PHA6T	C	10.00	10.59	1.0	1.0	8.0			1.1	1.1	8.5		
Physics A	2451	11	138	PHYA1	W	20.00	12.18	9.5	9.5	1.0			5.8	5.8	0.6		
	2451	11	138	PHYA2	W	20.00	16.37	9.5	9.5	1.0			7.8	7.8	0.8		
	2451	11	138	PHA3X	EAP	10.00	7.14	1.0	1.0	8.0			0.7	0.7	5.7		
	2451	11	138	PHYA4	OTQ/W	20.00	25.62	7.0	12.0	1.0			9.0	15.4	1.3		
	2451	11	138	PHA5D	W	20.00	28.38	7.0	12.0	1.0			9.9	17.0	1.4		
	2451	11	138	PHA6T	C	10.00	10.30	1.0	1.0	8.0			1.0	1.0	8.2		
Physics A	2451	12	1598	PHYA1	W	20.00	15.29	9.5	9.5	1.0			7.3	7.3	0.8		
	2451	12	1598	PHYA2	W	20.00	16.03	9.5	9.5	1.0			7.6	7.6	0.8		
	2451	12	1598	PHA3X	EAP	10.00	6.16	1.0	1.0	8.0			0.6	0.6	4.9		
	2451	12	1598	PHYA4	OTQ/W	20.00	24.25	7.0	12.0	1.0			8.5	14.5	1.2		
	2451	12	1598	PHA5A	W	20.00	26.84	7.0	12.0	1.0			9.4	16.1	1.3		
	2451	12	1598	PHA6X	EAP	10.00	11.43	1.0	1.0	8.0			1.1	1.1	9.1		
Physics A	2451	13	219	PHYA1	W	20.00	15.33	9.5	9.5	1.0			7.3	7.3	0.8		
	2451	13	219	PHYA2	W	20.00	15.96	9.5	9.5	1.0			7.6	7.6	0.8		
	2451	13	219	PHA3X	EAP	10.00	6.48	1.0	1.0	8.0			0.6	0.6	5.2		
	2451	13	219	PHYA4	OTQ/W	20.00	22.81	7.0	12.0	1.0			8.0	13.7	1.1		
	2451	13	219	PHA5B	W	20.00	27.76	7.0	12.0	1.0			9.7	16.7	1.4		
	2451	13	219	PHA6X	EAP	10.00	11.66	1.0	1.0	8.0			1.2	1.2	9.3		
Physics A	2451	14	504	PHYA1	W	20.00	15.47	9.5	9.5	1.0			7.3	7.3	0.8		

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2451	14	504	PHYA2	W	20.00	15.79	9.5	9.5	1.0		7.5	7.5	0.8			
	2451	14	504	PHA3X	EAP	10.00	5.59	1.0	1.0	8.0		0.6	0.6	4.5			
	2451	14	504	PHYA4	OTQ/W	20.00	24.32	7.0	12.0	1.0		8.5	14.6	1.2			
	2451	14	504	PHA5C	W	20.00	27.97	7.0	12.0	1.0		9.8	16.8	1.4			
	2451	14	504	PHA6X	EAP	10.00	10.86	1.0	1.0	8.0		1.1	1.1	8.7			
Physics A	2451	15	1015	PHYA1	W	20.00	15.51	9.5	9.5	1.0		7.4	7.4	0.8			
	2451	15	1015	PHYA2	W	20.00	15.92	9.5	9.5	1.0		7.6	7.6	0.8			
	2451	15	1015	PHA3X	EAP	10.00	5.92	1.0	1.0	8.0		0.6	0.6	4.7			
	2451	15	1015	PHYA4	OTQ/W	20.00	23.91	7.0	12.0	1.0		8.4	14.3	1.2			
	2451	15	1015	PHA5D	W	20.00	28.06	7.0	12.0	1.0		9.8	16.8	1.4			
	2451	15	1015	PHA6X	EAP	10.00	10.68	1.0	1.0	8.0		1.1	1.1	8.5			
Physics B	2456	0	503	PHYB1	W	20.00	18.93	8.0	8.5	3.5		7.6	8.0	3.3			
	2456	0	503	PHYB2	W	20.00	16.24	8.0	8.5	3.5		6.5	6.9	2.8			
	2456	0	503	PHB3T	C	10.00	5.11	1.0	1.0	8.0		0.5	0.5	4.1			
	2456	0	503	PHYB4	W	20.00	26.09	6.0	10.5	3.5		7.8	13.7	4.6			
	2456	0	503	PHYB5	W	20.00	25.09	6.0	10.5	3.5		7.5	13.2	4.4			
	2456	0	503	PHB6T	C	10.00	8.55	1.0	1.0	8.0		0.9	0.9	6.8			
Physics B	2456	3	107	PHYB1	W	20.00	15.97	8.0	8.5	3.5		6.4	6.8	2.8			
	2456	3	107	PHYB2	W	20.00	15.00	8.0	8.5	3.5		6.0	6.4	2.6			
	2456	3	107	PHB3X	EAP	10.00	5.28	1.0	1.0	8.0		0.5	0.5	4.2			
	2456	3	107	PHYB4	W	20.00	26.72	6.0	10.5	3.5		8.0	14.0	4.7			
	2456	3	107	PHYB5	W	20.00	25.73	6.0	10.5	3.5		7.7	13.5	4.5			
	2456	3	107	PHB6X	EAP	10.00	11.31	1.0	1.0	8.0		1.1	1.1	9.0			
Polish	2686	0	864	PLSH1	W	50.00	29.52		37.5	12.5			22.1	7.4			
	2686	0	864	PLSH2	W	50.00	70.48		37.5	12.5			52.9	17.6			
Psychology A	2181	0	32575	PSYA1	W	25.00	19.69	8.3	8.3	8.3		6.6	6.6	6.6			
	2181	0	32575	PSYA2	W	25.00	21.88	10.4	10.4	4.2		9.1	9.1	3.6			

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2181	0	32575	PSYA3	W	25.00	28.35	8.3	12.5	4.2		9.4	14.2	4.7			
	2181	0	32575	PSYA4	W	25.00	30.08	5.7	8.4	10.8		6.9	10.1	13.0			
Psychology B	2186	0	4894	PSYB1	W	25.00	20.79	6.7	6.7	11.7		5.5	5.5	9.7			
	2186	0	4894	PSYB2	W	25.00	23.34	11.7	10.7	2.7		10.9	10.0	2.5			
	2186	0	4894	PSYB3	W	25.00	25.97	9.3	14.3	1.3		9.7	14.9	1.4			
	2186	0	4894	PSYB4	W	25.00	29.90	4.3	9.3	11.3		5.2	11.2	13.6			
Religious Studies	2061	1	271	RSS01	W	25.00	21.81	16.7	8.3			14.6	7.2				
	2061	1	271	RSS03	W	25.00	20.39	16.7	8.3			13.6	6.8				
	2061	1	271	RST3A	W	25.00	29.13	15.0	10.0			17.5	11.7				
	2061	1	271	RST4A	W	25.00	28.67	15.0	10.0			17.2	11.5				
Religious Studies	2061	2	125	RSS01	W	25.00	19.26	16.7	8.3			12.9	6.4				
	2061	2	125	RSS04	W	25.00	24.60	16.7	8.3			16.4	8.2				
	2061	2	125	RST3A	W	25.00	27.04	15.0	10.0			16.2	10.8				
	2061	2	125	RST4A	W	25.00	29.09	15.0	10.0			17.5	11.6				
Religious Studies	2061	111	123	RSS01	W	25.00	24.22	16.7	8.3			16.2	8.0				
	2061	111	123	RSS03	W	25.00	23.65	16.7	8.3			15.8	7.9				
	2061	111	123	RST3A	W	25.00	28.93	15.0	10.0			17.4	11.6				
	2061	111	123	RST4C	W	25.00	23.20	15.0	10.0			13.9	9.3				
Religious Studies	2061	165	105	RSS01	W	25.00	21.17	16.7	8.3			14.1	7.0				
	2061	165	105	RSS02	W	25.00	25.01	16.7	8.3			16.7	8.3				
	2061	165	105	RST3B	W	25.00	34.26	15.0	10.0			20.6	13.7				
	2061	165	105	RST4A	W	25.00	19.56	15.0	10.0			11.7	7.8				
Religious Studies	2061	166	206	RSS01	W	25.00	20.45	16.7	8.3			13.7	6.8				
	2061	166	206	RSS03	W	25.00	18.25	16.7	8.3			12.2	6.1				
	2061	166	206	RST3B	W	25.00	31.96	15.0	10.0			19.2	12.8				
	2061	166	206	RST4A	W	25.00	29.33	15.0	10.0			17.6	11.7				
Religious Studies	2061	167	145	RSS01	W	25.00	15.73	16.7	8.3			10.5	5.2				

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
	2061	167	145	RSS04	W	25.00	23.74	16.7	8.3			15.9	7.9				
	2061	167	145	RST3B	W	25.00	31.52	15.0	10.0			18.9	12.6				
	2061	167	145	RST4A	W	25.00	29.01	15.0	10.0			17.4	11.6				
Religious Studies	2061	184	265	RSS03	W	25.00	19.40	16.7	8.3			13.0	6.4				
	2061	184	265	RSS04	W	25.00	19.24	16.7	8.3			12.9	6.4				
	2061	184	265	RST3B	W	25.00	31.60	15.0	10.0			19.0	12.6				
	2061	184	265	RST4A	W	25.00	29.76	15.0	10.0			17.9	11.9				
Religious Studies	2061	190	109	RSS03	W	25.00	18.57	16.7	8.3			12.4	6.2				
	2061	190	109	RSS10	W	25.00	17.83	16.7	8.3			11.9	5.9				
	2061	190	109	RST3B	W	25.00	31.68	15.0	10.0			19.0	12.7				
	2061	190	109	RST4A	W	25.00	31.92	15.0	10.0			19.2	12.8				
Science in Society	2401	0	160	SCIS1	W	30.00	28.71	17.5	12.5			16.7	12.0				
	2401	0	160	SCIS2	C	20.00	8.54	7.5	12.5			3.2	5.3				
	2401	0	160	SCIS3	W	30.00	41.07	7.0	23.0			9.6	31.5				
	2401	0	160	SCIS4	W	20.00	21.68	3.0	17.0			3.3	18.4				
Sociology	2191	0	24842	SCLY1	W	20.00	13.80	12.5	12.5			8.6	8.6				
	2191	0	24842	SCLY2	W	30.00	28.45	12.0	13.0			11.4	12.3				
	2191	0	24842	SCLY3	W	20.00	18.92	10.0	15.0			9.5	14.2				
	2191	0	24842	SCLY4	W	30.00	38.83	10.8	14.3			13.9	18.4				
Spanish	2696	0	2045	SPAN1	W	35.00	34.24	11.0	16.0	8.0		10.8	15.7	7.8			
	2696	0	2045	SPA2T	O	15.00	8.62	7.0	3.0	5.0		4.0	1.7	2.9			
	2696	0	2045	SPAN3	W	35.00	43.12	8.0	19.0	8.0		9.9	23.4	9.9			
	2696	0	2045	SPA4T	O	15.00	14.02	7.0	4.0	4.0		6.5	3.7	3.7			
Spanish	2696	1	121	SPAN1	W	35.00	35.64	11.0	16.0	8.0		11.2	16.3	8.1			
	2696	1	121	SPA2V	O	15.00	9.35	7.0	3.0	5.0		4.4	1.9	3.1			
	2696	1	121	SPAN3	W	35.00	43.55	8.0	19.0	8.0		10.0	23.6	10.0			
	2696	1	121	SPA4T	O	15.00	11.46	7.0	4.0	4.0		5.3	3.1	3.1			

Title	Entry Code	Route	Cands.	Unit Code	Type	Int. Wt.	Ach. Wt.	Intended Weight					Achieved Weight				
								AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Spanish	2696	2	302	SPAN1	W	35.00	32.91	11.0	16.0	8.0			10.3	15.0	7.5		
	2696	2	302	SPA2T	O	15.00	8.22	7.0	3.0	5.0			3.8	1.6	2.7		
	2696	2	302	SPAN3	W	35.00	44.49	8.0	19.0	8.0			10.2	24.2	10.2		
	2696	2	302	SPA4V	O	15.00	14.38	7.0	4.0	4.0			6.7	3.8	3.8		
Spanish	2696	3	980	SPAN1	W	35.00	32.65	11.0	16.0	8.0			10.3	14.9	7.5		
	2696	3	980	SPA2V	O	15.00	10.25	7.0	3.0	5.0			4.8	2.0	3.4		
	2696	3	980	SPAN3	W	35.00	42.40	8.0	19.0	8.0			9.7	23.0	9.7		
	2696	3	980	SPA4V	O	15.00	14.70	7.0	4.0	4.0			6.9	3.9	3.9		



The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Entry Code	Route	Cands.	Intended Weight					Achieved Weight					Difference (Achieved - Intended)					Percentage Difference (%)				
				AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Classical Civilisation	2021	379	229	45.0	55.0				44.8	55.2				-0.2	0.2				-0.4	0.4			
Communication & Culture	2626	0	2020	20.0	35.0	35.0	10.0		17.9	34.6	37.4	10.1		-2.1	-0.4	2.4	0.1		-10.7	-1.1	7.0	0.9	
Computing	2511	0	2249	50.0	50.0				47.4	52.6				-2.6	2.6				-5.3	5.3			
Critical Thinking	2771	0	106	27.8	34.3	38.0			27.6	34.2	38.2			-0.1	0.0	0.2			-0.5	-0.1	0.5		
D&T: Food Technology	2541	0	915	60.0	40.0				60.0	40.0				0.0	0.0				0.0	0.0			
D&T: Product Design (3-D Design)	2551	0	4831	60.0	40.0				60.0	40.0				0.0	0.0				0.0	0.0			
D&T: Product Design (Textiles)	2561	0	2210	60.0	40.0				60.0	40.0				0.0	0.0				0.0	0.0			
D&T: Systems & Control Technology	2556	0	272	60.0	40.0				60.0	40.0				0.0	0.0				0.0	0.0			
Dance	2231	0	2286	25.0	30.0	10.0	17.5	17.5	26.4	28.5	9.9	17.6	17.6	1.4	-1.5	-0.1	0.1	0.1	5.8	-5.2	-0.5	0.4	0.4
Drama & Theatre Studies	2241	0	4841	30.0	22.5	32.5	15.0		25.2	24.0	36.7	14.1		-4.8	1.5	4.2	-0.9		-16.0	6.7	13.1	-6.3	
Economics	2141	0	8333	28.0	28.0	24.0	20.0		27.7	27.7	24.0	20.5		-0.3	-0.3	0.0	0.5		-1.0	-1.0	0.0	2.7	
Electronics	2431	0	425	33.5	36.5	30.0			34.8	38.7	26.5			1.3	2.2	-3.5			3.9	6.1	-11.8		
English Language & Literature A	2721	0	5174	29.5	28.5	24.5	17.5		28.5	29.5	24.5	17.5		-1.0	1.0	0.0	0.0		-3.5	3.6	-0.1	0.2	
English Language & Literature B	2726	0	5503	22.5	28.8	26.3	22.5		21.9	28.8	26.1	23.1		-0.6	0.1	-0.1	0.6		-2.7	0.3	-0.5	2.8	
English Language A	2701	0	3404	23.3	26.6	30.0	20.0		22.5	26.6	29.1	21.7		-0.8	0.0	-0.9	1.7		-3.5	0.0	-3.1	8.7	
English Language B	2706	0	15504	27.5	27.5	25.0	20.0		28.3	27.6	23.9	20.2		0.8	0.1	-1.1	0.2		2.8	0.2	-4.3	1.2	
English Literature A	2741	0	2456	25.5	29.5	24.5	20.5		25.4	29.0	24.6	21.0		-0.1	-0.5	0.1	0.5		-0.4	-1.5	0.4	2.2	
English Literature A	2741	1	3766	25.5	29.5	24.5	20.5		25.5	29.1	24.7	20.7		0.0	-0.4	0.2	0.2		0.1	-1.5	0.8	1.0	
English Literature A	2741	2	4389	25.5	29.5	24.5	20.5		25.5	29.1	24.7	20.7		0.0	-0.4	0.2	0.2		0.1	-1.5	0.8	1.0	
English Literature B	2746	0	16398	22.5	30.0	27.5	20.0		22.5	30.1	27.5	19.9		0.0	0.1	0.0	-0.1		-0.1	0.2	0.1	-0.3	
Environmental Studies	2441	0	1559	35.0	45.0	20.0			34.0	45.9	20.1			-1.0	0.9	0.1			-2.9	2.1	0.3		
French	2651	0	3627	33.0	42.0	25.0			31.8	43.8	24.4			-1.2	1.8	-0.6			-3.8	4.4	-2.4		
French	2651	1	331	33.0	42.0	25.0			31.9	43.5	24.6			-1.1	1.5	-0.4			-3.2	3.6	-1.8		

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Entry Code	Route	Cands.	Intended Weight					Achieved Weight					Difference (Achieved - Intended)					Percentage Difference (%)				
				AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
French	2651	2	454	33.0	42.0	25.0			31.7	43.9	24.4			-1.3	1.9	-0.6			-3.8	4.5	-2.5		
French	2651	3	2183	33.0	42.0	25.0			31.9	43.6	24.5			-1.1	1.6	-0.5			-3.3	3.8	-2.1		
General Studies A	2761	0	18686	30.0	35.5	17.0	17.5		29.5	35.1	17.6	17.8		-0.5	-0.4	0.6	0.3		-1.8	-1.1	3.6	1.8	
General Studies B	2766	0	5111	29.2	34.2	16.6	20.0		28.5	34.3	17.2	20.0		-0.7	0.1	0.5	0.0		-2.3	0.4	3.2	0.0	
Geography	2031	0	6691	33.2	37.6	29.2			35.0	38.6	26.4			1.8	1.0	-2.8			5.5	2.6	-9.6		
Geography	2031	1	7610	33.2	37.6	29.2			34.6	38.5	26.9			1.4	0.9	-2.3			4.2	2.4	-7.8		
German	2661	0	1427	33.0	42.0	25.0			32.2	43.2	24.6			-0.8	1.2	-0.4			-2.6	3.0	-1.6		
German	2661	2	146	33.0	42.0	25.0			32.6	42.6	24.7			-0.4	0.6	-0.3			-1.2	1.5	-1.0		
German	2661	3	623	33.0	42.0	25.0			32.9	42.4	24.8			-0.1	0.4	-0.2			-0.4	0.9	-0.9		
Government & Politics	2151	0	2504	45.0	35.0	20.0			44.2	35.8	20.0			-0.8	0.8	0.0			-1.8	2.3	0.0		
Government & Politics	2151	3	714	45.0	35.0	20.0			44.3	35.7	20.0			-0.7	0.7	0.0			-1.5	2.0	0.0		
Government & Politics	2151	4	320	45.0	35.0	20.0			44.2	35.8	20.0			-0.8	0.8	0.0			-1.9	2.4	0.0		
History	2041	0	266	30.5	34.5	9.5	25.5		30.1	34.1	8.8	27.0		-0.4	-0.4	-0.7	1.5		-1.2	-1.2	-7.0	5.7	
History	2041	254	121	30.5	34.5	9.5	25.5		30.0	34.1	9.0	26.9		-0.5	-0.4	-0.5	1.4		-1.7	-1.2	-5.0	5.5	
History	2041	262	350	30.5	34.5	9.5	25.5		29.8	34.1	9.0	27.2		-0.7	-0.4	-0.5	1.7		-2.2	-1.3	-5.7	6.5	
History	2041	263	228	30.5	34.5	9.5	25.5		29.9	34.1	9.0	27.0		-0.6	-0.4	-0.5	1.5		-2.0	-1.2	-5.3	5.9	
History	2041	267	189	30.5	34.5	9.5	25.5		31.2	33.5	7.2	28.1		0.7	-1.0	-2.3	2.6		2.4	-2.9	-24.2	10.0	
History	2041	271	514	30.5	34.5	9.5	25.5		30.3	33.9	8.3	27.5		-0.2	-0.6	-1.2	2.0		-0.6	-1.8	-12.4	7.8	
History	2041	372	125	30.5	34.5	9.5	25.5		29.8	33.8	8.4	28.0		-0.7	-0.7	-1.1	2.5		-2.3	-1.9	-11.6	9.7	
History	2041	505	175	30.5	34.5	9.5	25.5		29.4	34.1	9.1	27.4		-1.1	-0.4	-0.4	1.9		-3.5	-1.2	-4.5	7.6	
History	2041	777	132	30.5	34.5	9.5	25.5		29.2	34.0	9.0	27.9		-1.3	-0.5	-0.5	2.4		-4.3	-1.5	-5.7	9.3	
History	2041	1541	107	30.5	34.5	9.5	25.5		30.8	33.7	7.9	27.6		0.3	-0.8	-1.6	2.1		0.8	-2.2	-16.5	8.1	
History	2041	2005	217	30.5	34.5	9.5	25.5		30.5	33.7	7.9	27.9		0.0	-0.8	-1.6	2.4		0.1	-2.3	-16.8	9.3	

The Achieved Weightings of Assessment Objectives as a Source of Validity Evidence

Title	Entry Code	Route	Cands.	Intended Weight					Achieved Weight					Difference (Achieved - Intended)					Percentage Difference (%)				
				AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
History	2041	2095	139	30.5	34.5	9.5	25.5	31.3	33.7	7.4	27.6	0.8	-0.8	-2.1	2.1	2.5	-2.3	-21.7	8.2				
History	2041	2139	145	30.5	34.5	9.5	25.5	30.5	34.0	8.6	26.9	0.0	-0.5	-0.9	1.4	0.0	-1.5	-9.7	5.6				
History	2041	2711	103	30.5	34.5	9.5	25.5	29.5	34.1	9.2	27.2	-1.0	-0.4	-0.3	1.7	-3.4	-1.1	-2.9	6.7				
History	2041	2715	100	30.5	34.5	9.5	25.5	29.4	34.3	9.5	26.8	-1.1	-0.2	0.0	1.3	-3.7	-0.6	-0.1	5.3				
History	2041	2716	239	30.5	34.5	9.5	25.5	30.8	33.9	8.2	27.2	0.3	-0.6	-1.3	1.7	0.9	-1.8	-14.1	6.7				
History	2041	2764	127	30.5	34.5	9.5	25.5	30.6	33.9	8.3	27.2	0.1	-0.6	-1.2	1.7	0.2	-1.7	-12.7	6.8				
History	2041	2765	134	30.5	34.5	9.5	25.5	30.6	33.8	8.1	27.5	0.1	-0.7	-1.4	2.0	0.4	-2.1	-14.7	7.9				
History	2041	2769	127	30.5	34.5	9.5	25.5	32.2	33.3	6.4	28.1	1.7	-1.2	-3.1	2.6	5.5	-3.5	-32.6	10.2				
History	2041	2783	137	30.5	34.5	9.5	25.5	29.8	34.2	9.4	26.6	-0.7	-0.3	-0.1	1.1	-2.2	-0.8	-1.3	4.2				
History	2041	2788	134	30.5	34.5	9.5	25.5	29.7	34.3	9.4	26.6	-0.8	-0.2	-0.1	1.1	-2.8	-0.6	-0.7	4.4				
History	2041	2805	129	30.5	34.5	9.5	25.5	31.1	34.1	8.5	26.3	0.6	-0.4	-1.0	0.8	1.8	-1.1	-10.4	3.2				
History	2041	2999	168	30.5	34.5	9.5	25.5	30.1	34.4	9.6	25.9	-0.4	-0.1	0.1	0.4	-1.4	-0.3	1.4	1.6				
History	2041	3003	106	30.5	34.5	9.5	25.5	29.3	35.0	11.1	24.6	-1.2	0.5	1.6	-0.9	-4.0	1.4	16.9	-3.3				
History	2041	3022	189	30.5	34.5	9.5	25.5	29.0	33.9	9.1	28.0	-1.5	-0.6	-0.4	2.5	-4.8	-1.6	-4.5	9.7				
History of Art	2251	0	892	29.0	29.0	30.0	12.0	28.2	28.1	29.1	14.6	-0.8	-0.9	-0.9	2.6	-2.8	-3.1	-3.0	22.0				
Human Biology	2406	0	594	35.0	39.0	26.0		35.1	41.0	23.9		0.1	2.0	-2.1		0.3	5.1	-8.1					
Human Biology	2406	3	198	35.0	39.0	26.0		35.3	41.3	23.5		0.3	2.3	-2.5		0.8	5.8	-9.7					
ICT	2521	0	3817	50.0	50.0			49.1	50.9			-0.9	0.9			-1.9	1.9						
Law	2161	0	7412	47.0	47.3	5.7		45.8	48.5	5.7		-1.2	1.2	0.0		-2.6	2.5	0.7					
Media Studies	2571	0	6986	30.0	30.0	25.0	15.0	28.7	28.3	26.3	16.6	-1.3	-1.7	1.3	1.6	-4.2	-5.6	5.4	10.7				
Music	2271	0	362	35.0	30.0	35.0		30.3	28.1	41.6		-4.7	-1.9	6.6		-13.5	-6.3	18.9					
Music	2271	3	104	35.0	30.0	35.0		26.5	34.9	38.6		-8.5	4.9	3.6		-24.2	16.3	10.1					
Music	2271	4	526	35.0	30.0	35.0		29.0	29.8	41.2		-6.0	-0.2	6.2		-17.2	-0.7	17.8					

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Title	Entry Code	Route	Cands.	Intended Weight					Achieved Weight					Difference (Achieved - Intended)					Percentage Difference (%)						
				AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5		
Panjabi	2681	0	194	75.0	25.0				75.0	25.0					0.0	0.0				0.0	0.0				
Philosophy	2171	0	3270	35.0	35.0	30.0			34.2	34.2	31.6			-0.8	-0.8	1.6				-2.3	-2.3	5.3			
Physical Education	2581	0	7725	40.0	35.0	25.0			47.5	23.9	28.6			7.5	-11.1	3.6				18.8	-31.8	14.4			
Physics A	2451	0	3462	35.0	45.0	20.0			35.4	48.7	15.9			0.4	3.7	-4.1				1.1	8.3	-20.7			
Physics A	2451	1	889	35.0	45.0	20.0			35.4	48.6	16.0			0.4	3.6	-4.0				1.1	8.0	-19.9			
Physics A	2451	2	1348	35.0	45.0	20.0			35.2	48.6	16.3			0.2	3.6	-3.7				0.5	7.9	-18.7			
Physics A	2451	3	2806	35.0	45.0	20.0			35.1	48.6	16.2			0.1	3.6	-3.8				0.4	8.0	-18.8			
Physics A	2451	4	205	35.0	45.0	20.0			34.6	47.7	17.7			-0.4	2.7	-2.3				-1.1	6.0	-11.4			
Physics A	2451	7	167	35.0	45.0	20.0			34.4	47.3	18.3			-0.6	2.3	-1.7				-1.8	5.1	-8.4			
Physics A	2451	8	113	35.0	45.0	20.0			35.3	48.6	16.1			0.3	3.6	-3.9				0.9	8.0	-19.7			
Physics A	2451	10	152	35.0	45.0	20.0			34.1	47.3	18.5			-0.9	2.3	-1.5				-2.4	5.2	-7.4			
Physics A	2451	11	138	35.0	45.0	20.0			34.2	47.7	18.1			-0.8	2.7	-1.9				-2.3	6.0	-9.6			
Physics A	2451	12	1598	35.0	45.0	20.0			34.5	47.3	18.2			-0.5	2.3	-1.8				-1.4	5.1	-9.0			
Physics A	2451	13	219	35.0	45.0	20.0			34.4	47.0	18.6			-0.6	2.0	-1.4				-1.8	4.5	-7.0			
Physics A	2451	14	504	35.0	45.0	20.0			34.8	47.9	17.3			-0.2	2.9	-2.7				-0.6	6.4	-13.3			
Physics A	2451	15	1015	35.0	45.0	20.0			34.8	47.8	17.5			-0.2	2.8	-2.5				-0.6	6.2	-12.7			
Physics B	2456	0	503	30.0	40.0	30.0			30.8	43.2	26.0			0.8	3.2	-4.0				2.6	7.9	-13.2			
Physics B	2456	3	107	30.0	40.0	30.0			29.8	42.4	27.9			-0.2	2.4	-2.1				-0.7	5.9	-7.1			
Polish	2686	0	864	75.0	25.0				75.0	25.0					0.0	0.0					0.0	0.0			
Psychology A	2181	0	32575	32.8	39.7	27.5			32.0	40.0	28.0			-0.8	0.3	0.5				-2.4	0.8	1.7			
Psychology B	2186	0	4894	32.0	41.0	27.0			31.3	41.6	27.1			-0.7	0.6	0.1				-2.1	1.4	0.5			
Religious Studies	2061	1	271	63.4	36.6				62.9	37.1				-0.5	0.5					-0.8	1.4				
Religious Studies	2061	2	125	63.4	36.6				63.0	37.0				-0.4	0.4					-0.7	1.1				

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				AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5	AO1	AO2	AO3	AO4	AO5
Religious Studies	2061	111	123	63.4	36.6				63.3	36.7				-0.1	0.1				-0.2	0.4			
Religious Studies	2061	165	105	63.4	36.6				63.1	36.9				-0.3	0.3				-0.4	0.7			
Religious Studies	2061	166	206	63.4	36.6				62.6	37.4				-0.8	0.8				-1.2	2.1			
Religious Studies	2061	167	145	63.4	36.6				62.7	37.3				-0.7	0.7				-1.1	2.0			
Religious Studies	2061	184	265	63.4	36.6				62.6	37.4				-0.8	0.8				-1.2	2.1			
Religious Studies	2061	190	109	63.4	36.6				62.5	37.5				-0.9	0.9				-1.5	2.5			
Science in Society	2401	0	160	35.0	65.0				32.8	67.2				-2.2	2.2				-6.3	3.4			
Sociology	2191	0	24842	45.3	54.8				43.4	53.6				-1.9	-1.2				-4.1	-2.1			
Spanish	2696	0	2045	33.0	42.0	25.0			31.2	44.5	24.3			-1.8	2.5	-0.7			-5.5	6.0	-2.8		
Spanish	2696	1	121	33.0	42.0	25.0			30.9	44.9	24.3			-2.1	2.9	-0.7			-6.5	6.8	-2.9		
Spanish	2696	2	302	33.0	42.0	25.0			31.1	44.7	24.3			-1.9	2.7	-0.7			-5.9	6.4	-2.9		
Spanish	2696	3	980	33.0	42.0	25.0			31.6	43.9	24.5			-1.4	1.9	-0.5			-4.3	4.6	-2.0		

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