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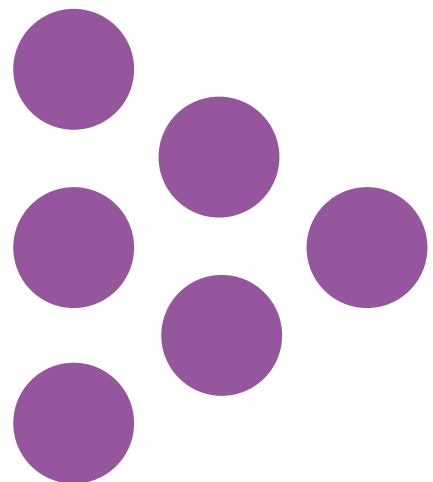
## Appendix B

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# National Reference Test 2021: Performance Across Content Areas

Research into the possible effects of Covid-19 disruption  
across different areas of the curriculum

National Foundation for Educational Research (NFER)



## Contents

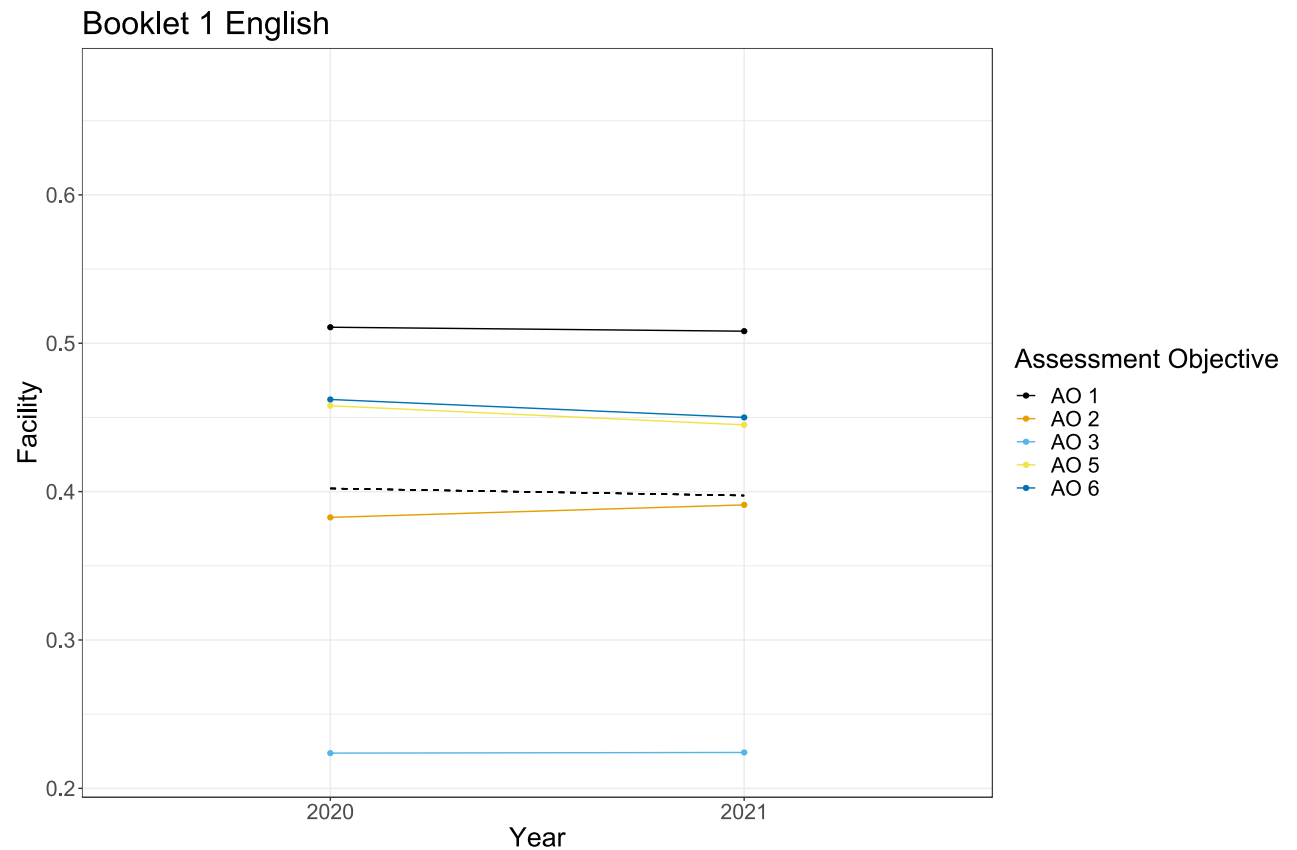
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## Appendix B: Proportions, facilities and mean scores

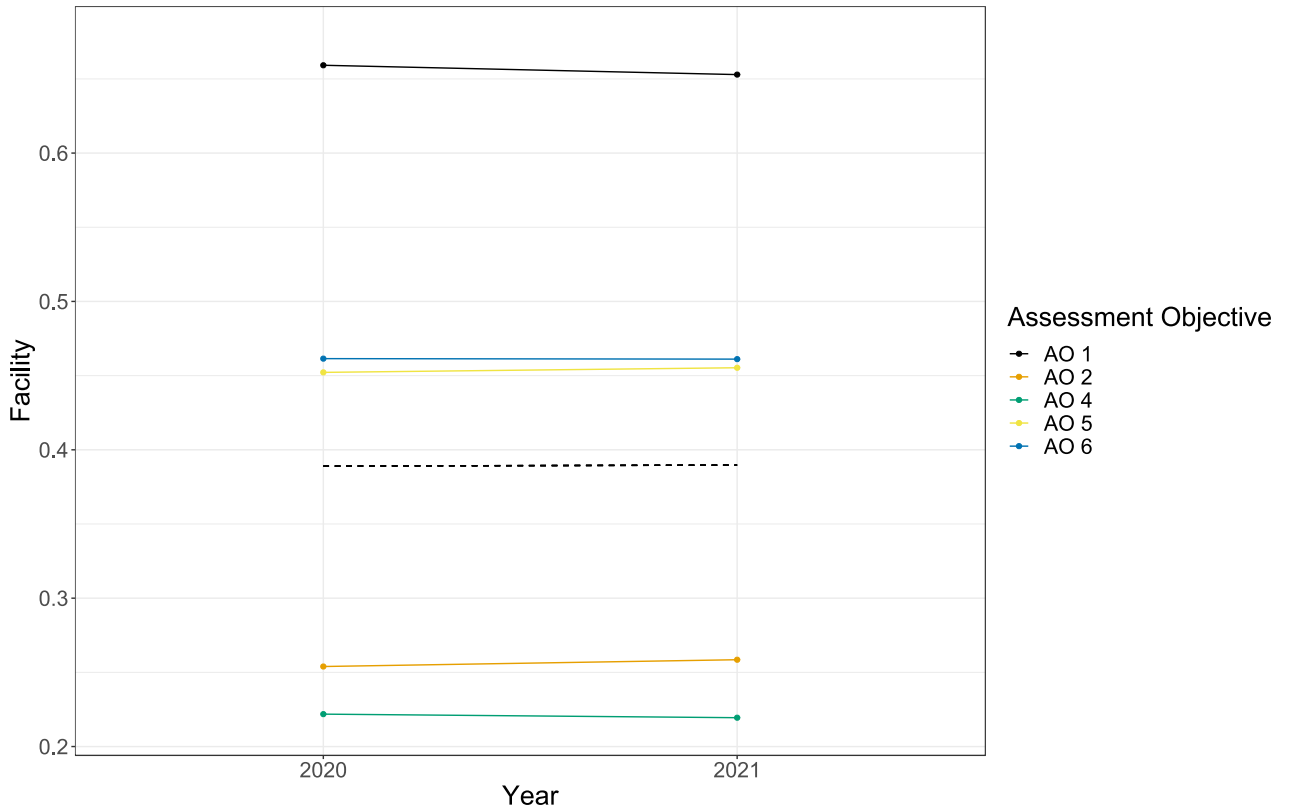
### B1 English

#### Figure B1 English facilities

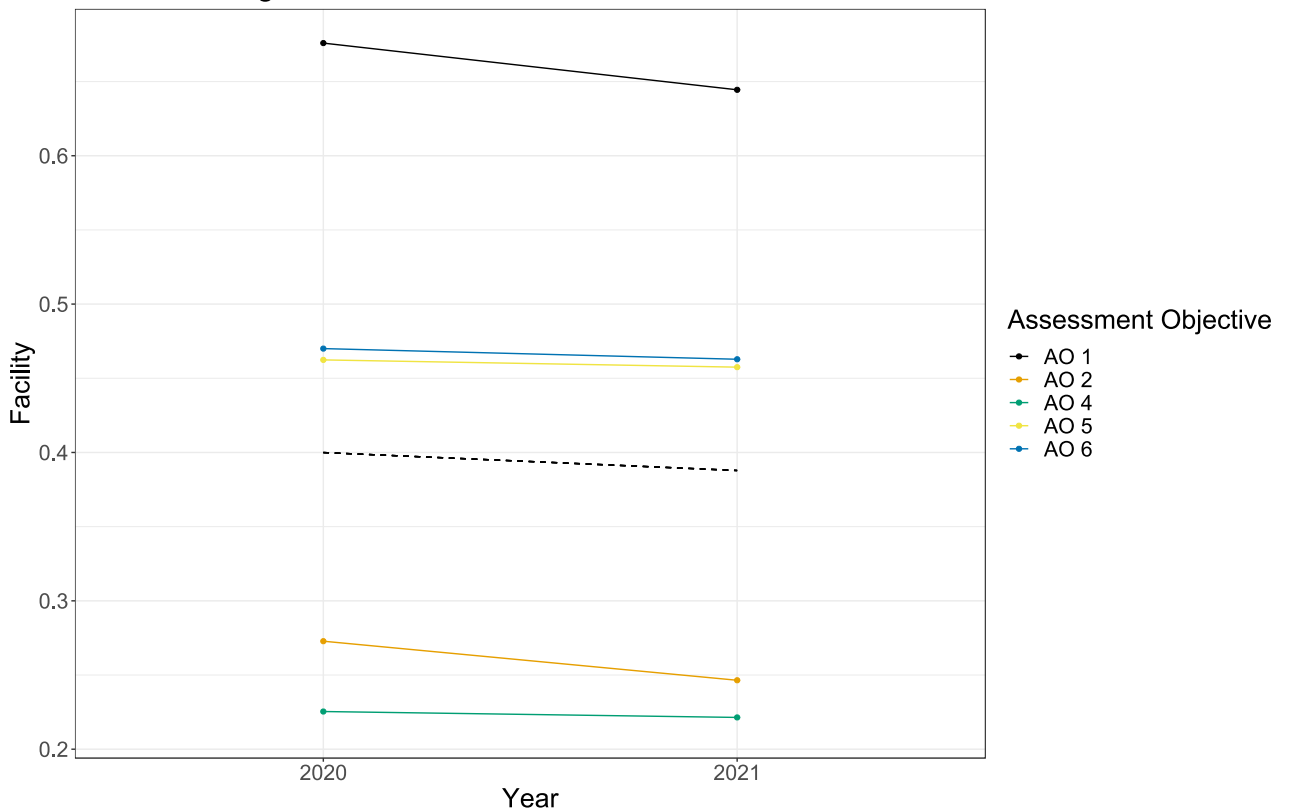
Figure B1 comprises charts showing the mean facilities for the English assessment objectives in English Booklets 1 to 8.



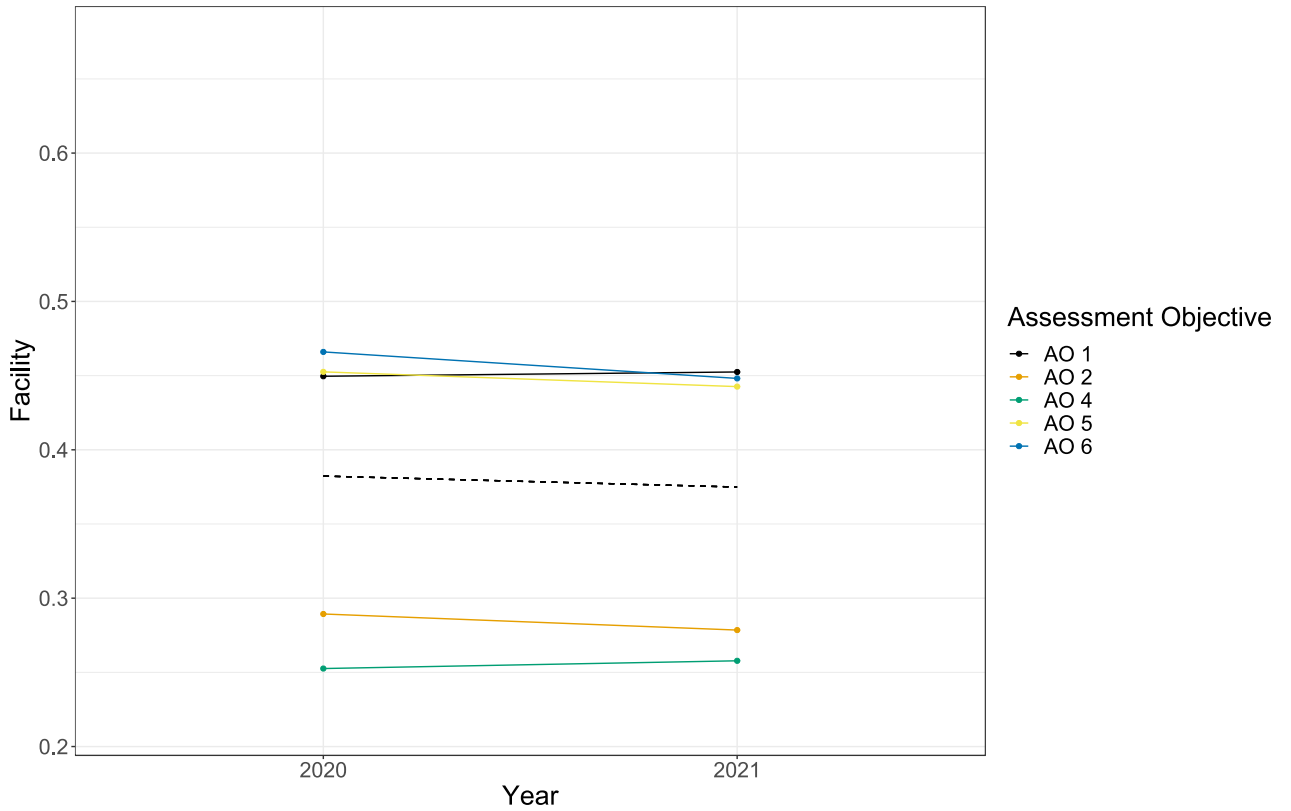
### Booklet 2 English



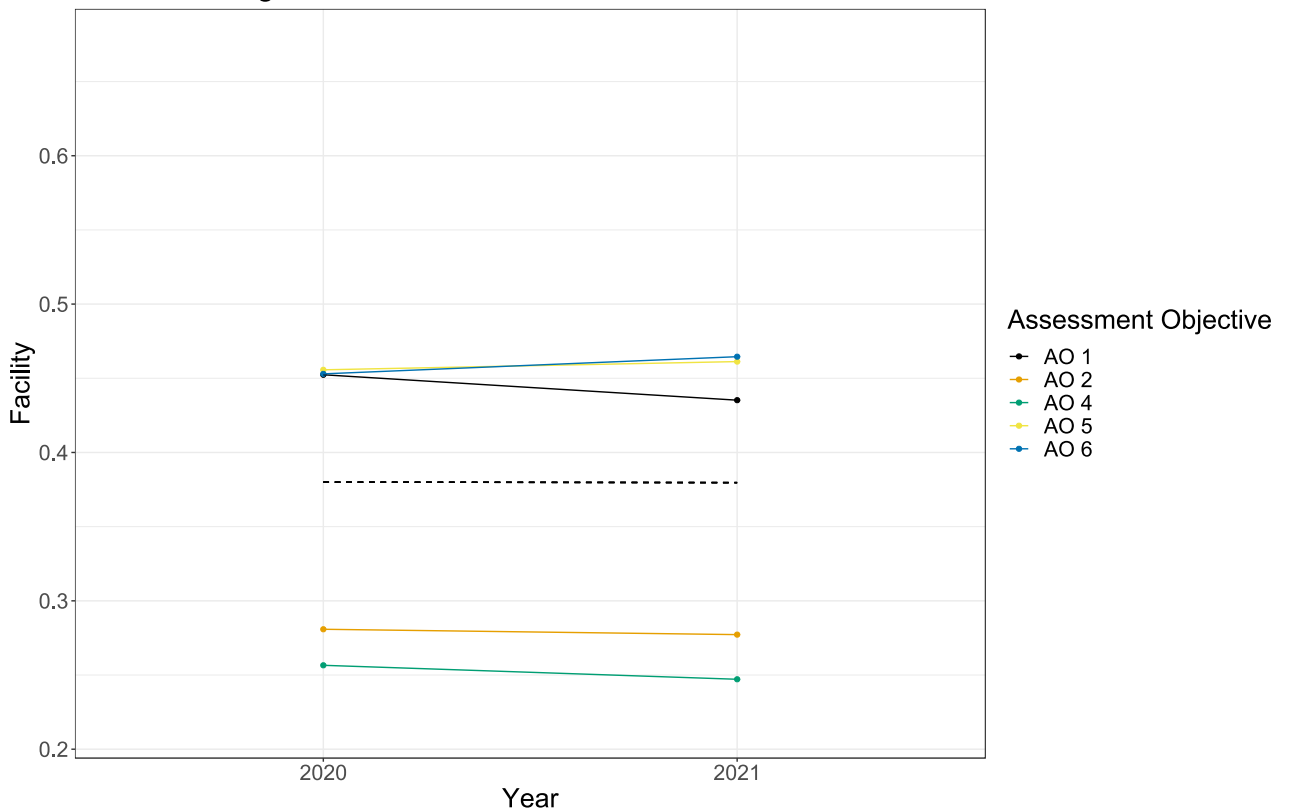
### Booklet 3 English



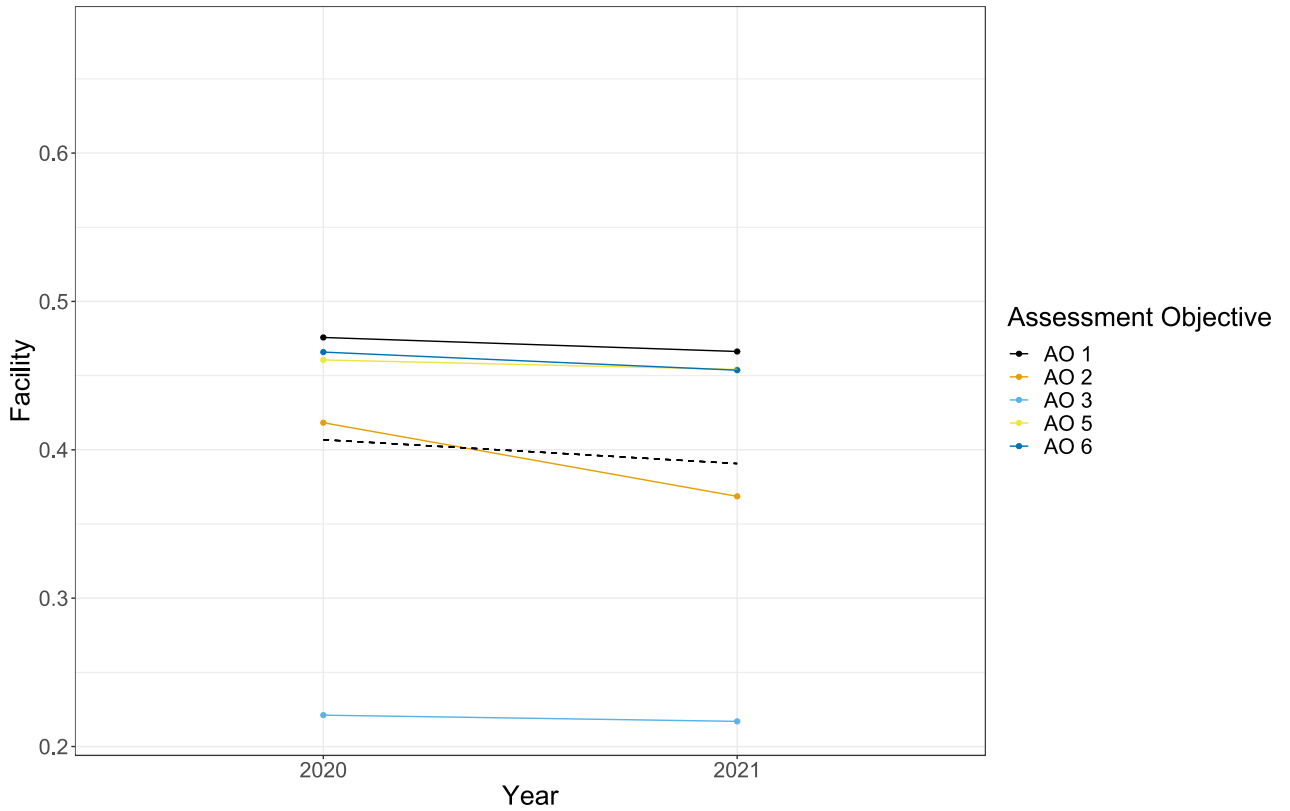
### Booklet 4 English



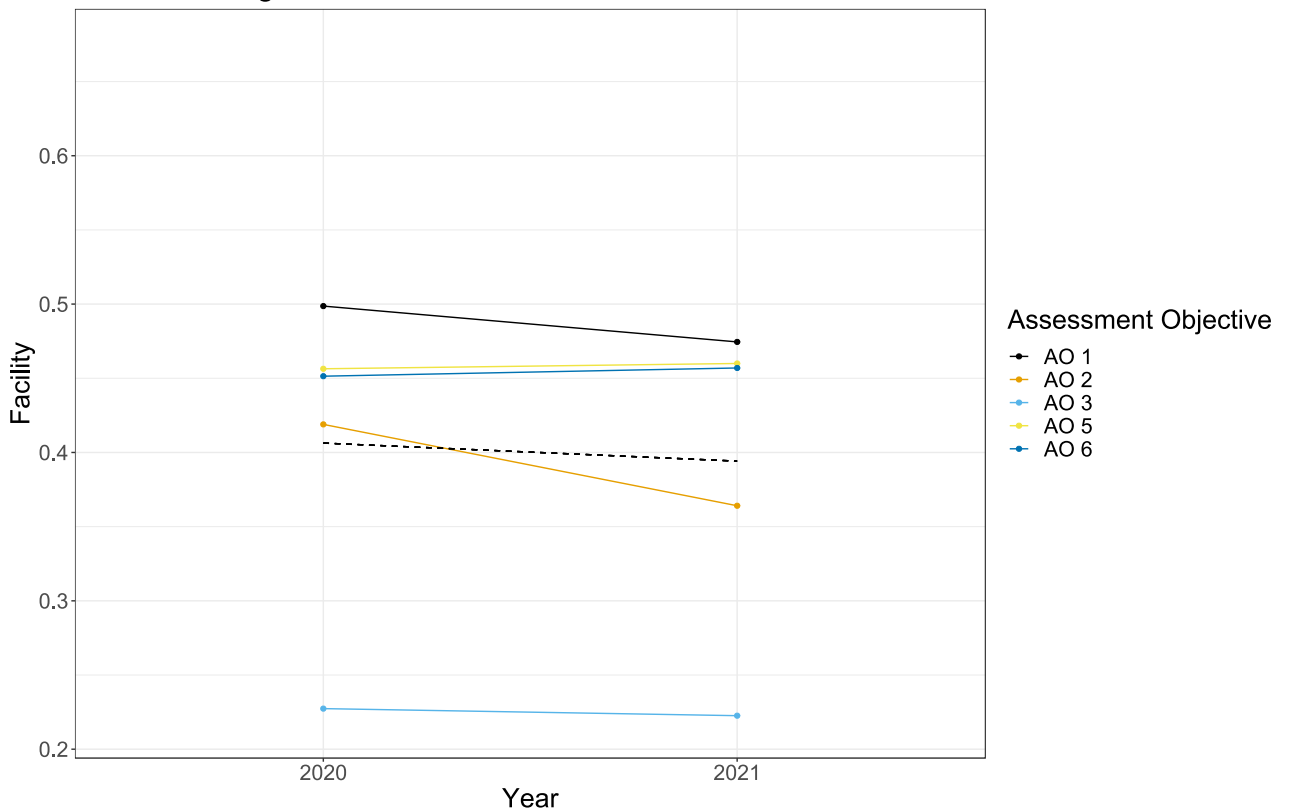
### Booklet 5 English



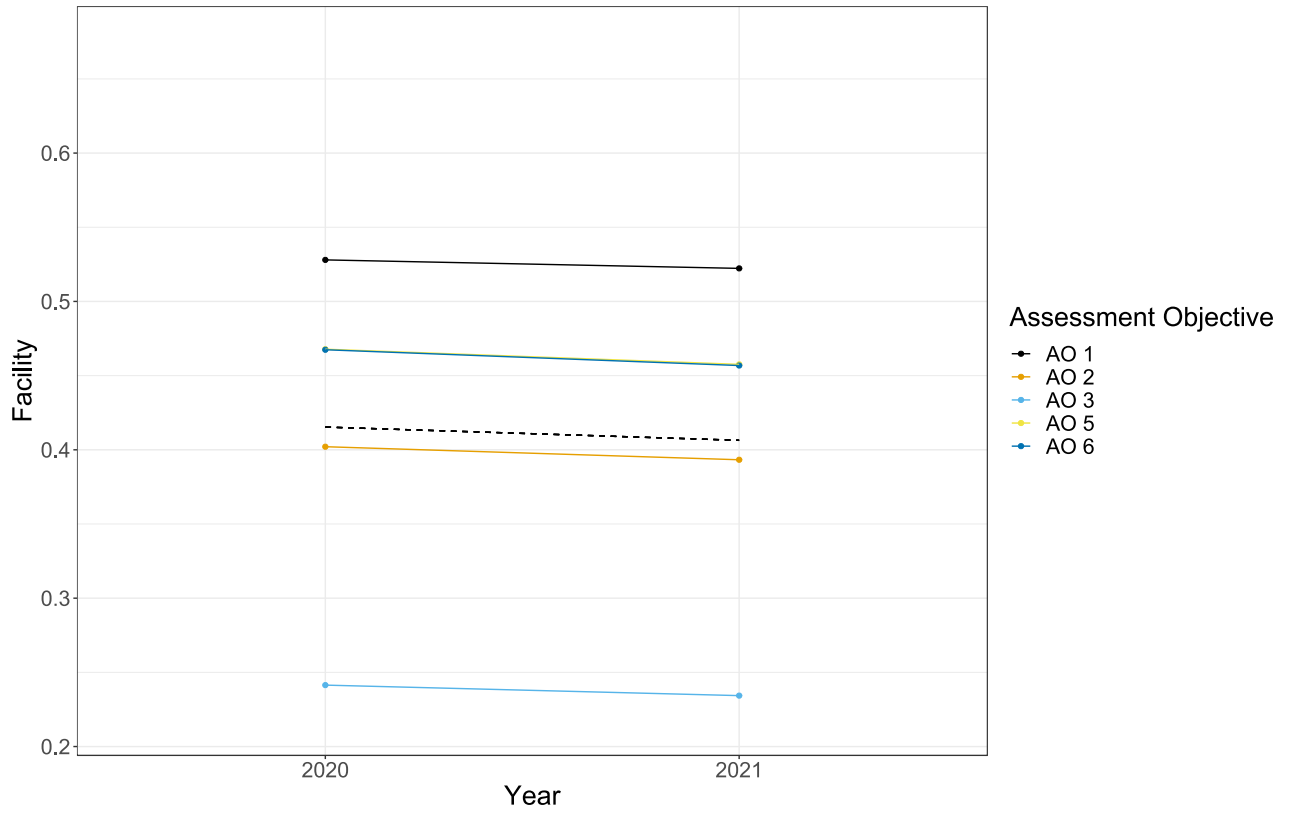
### Booklet 6 English



### Booklet 7 English



### Booklet 8 English



**Table B1 English mean scores table**

| Booklet | Assessment objective | Mean score 2020 | Mean score 2021 | SD score 2020 | SD score 2021 |
|---------|----------------------|-----------------|-----------------|---------------|---------------|
| 1       | AO 1                 | 2.554           | 2.541           | 1.265         | 1.267         |
| 1       | AO 2                 | 3.826           | 3.911           | 1.995         | 1.987         |
| 1       | AO 3                 | 2.237           | 2.242           | 1.750         | 1.643         |
| 1       | AO 5                 | 6.868           | 6.675           | 3.299         | 3.539         |
| 1       | AO 6                 | 4.621           | 4.500           | 2.123         | 2.293         |
| 2       | AO 1                 | 3.296           | 3.265           | 1.134         | 1.091         |
| 2       | AO 2                 | 2.539           | 2.585           | 1.746         | 1.913         |
| 2       | AO 4                 | 2.218           | 2.194           | 1.786         | 1.796         |
| 2       | AO 5                 | 6.783           | 6.830           | 3.214         | 3.317         |
| 2       | AO 6                 | 4.615           | 4.611           | 2.049         | 2.161         |
| 3       | AO 1                 | 3.380           | 3.222           | 1.064         | 1.064         |
| 3       | AO 2                 | 2.728           | 2.465           | 1.801         | 1.908         |
| 3       | AO 4                 | 2.254           | 2.214           | 1.757         | 1.819         |
| 3       | AO 5                 | 6.936           | 6.863           | 3.155         | 3.333         |
| 3       | AO 6                 | 4.700           | 4.628           | 2.026         | 2.200         |
| 4       | AO 1                 | 2.248           | 2.262           | 1.411         | 1.350         |
| 4       | AO 2                 | 2.893           | 2.785           | 2.192         | 2.250         |
| 4       | AO 4                 | 2.526           | 2.578           | 2.081         | 2.093         |
| 4       | AO 5                 | 6.788           | 6.639           | 3.145         | 3.508         |
| 4       | AO 6                 | 4.660           | 4.481           | 2.091         | 2.289         |
| 5       | AO 1                 | 2.262           | 2.176           | 1.348         | 1.330         |
| 5       | AO 2                 | 2.808           | 2.772           | 2.146         | 2.176         |
| 5       | AO 4                 | 2.565           | 2.471           | 2.050         | 1.941         |
| 5       | AO 5                 | 6.836           | 6.919           | 3.309         | 3.484         |
| 5       | AO 6                 | 4.530           | 4.646           | 2.085         | 2.275         |
| 6       | AO 1                 | 2.379           | 2.331           | 1.367         | 1.417         |
| 6       | AO 2                 | 4.183           | 3.686           | 2.171         | 2.205         |
| 6       | AO 3                 | 2.212           | 2.170           | 1.722         | 1.725         |
| 6       | AO 5                 | 6.909           | 6.813           | 3.409         | 3.691         |
| 6       | AO 6                 | 4.659           | 4.536           | 2.192         | 2.380         |



|   |      |       |       |       |       |
|---|------|-------|-------|-------|-------|
| 7 | AO 1 | 2.493 | 2.373 | 1.337 | 1.401 |
| 7 | AO 2 | 4.189 | 3.641 | 2.081 | 2.185 |
| 7 | AO 3 | 2.274 | 2.226 | 1.707 | 1.705 |
| 7 | AO 5 | 6.846 | 6.900 | 3.737 | 3.874 |
| 7 | AO 6 | 4.514 | 4.569 | 2.392 | 2.474 |
| 8 | AO 1 | 2.640 | 2.611 | 1.233 | 1.327 |
| 8 | AO 2 | 4.021 | 3.933 | 1.976 | 2.006 |
| 8 | AO 3 | 2.414 | 2.343 | 1.716 | 1.678 |
| 8 | AO 5 | 7.017 | 6.864 | 3.404 | 3.796 |
| 8 | AO 6 | 4.674 | 4.568 | 2.167 | 2.471 |

## B2 Mathematics

**Figure B2 Mathematics – subject area facilities**

Chart showing the mean facilities for the maths subject areas in booklet 1. This shows a drop in performance is seen in all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

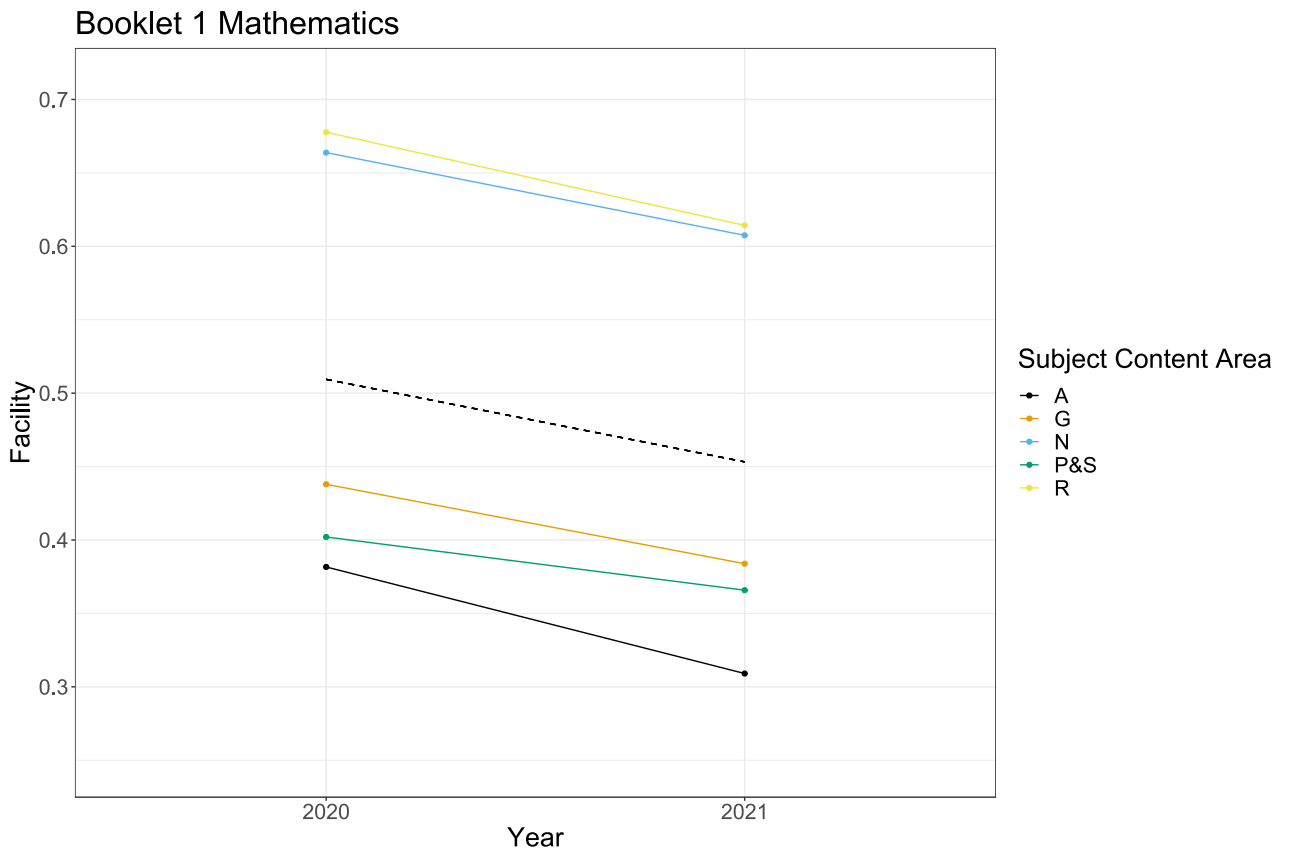


Chart showing the mean facilities for the maths subject areas in booklet 2. This shows a drop in performance is seen in all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

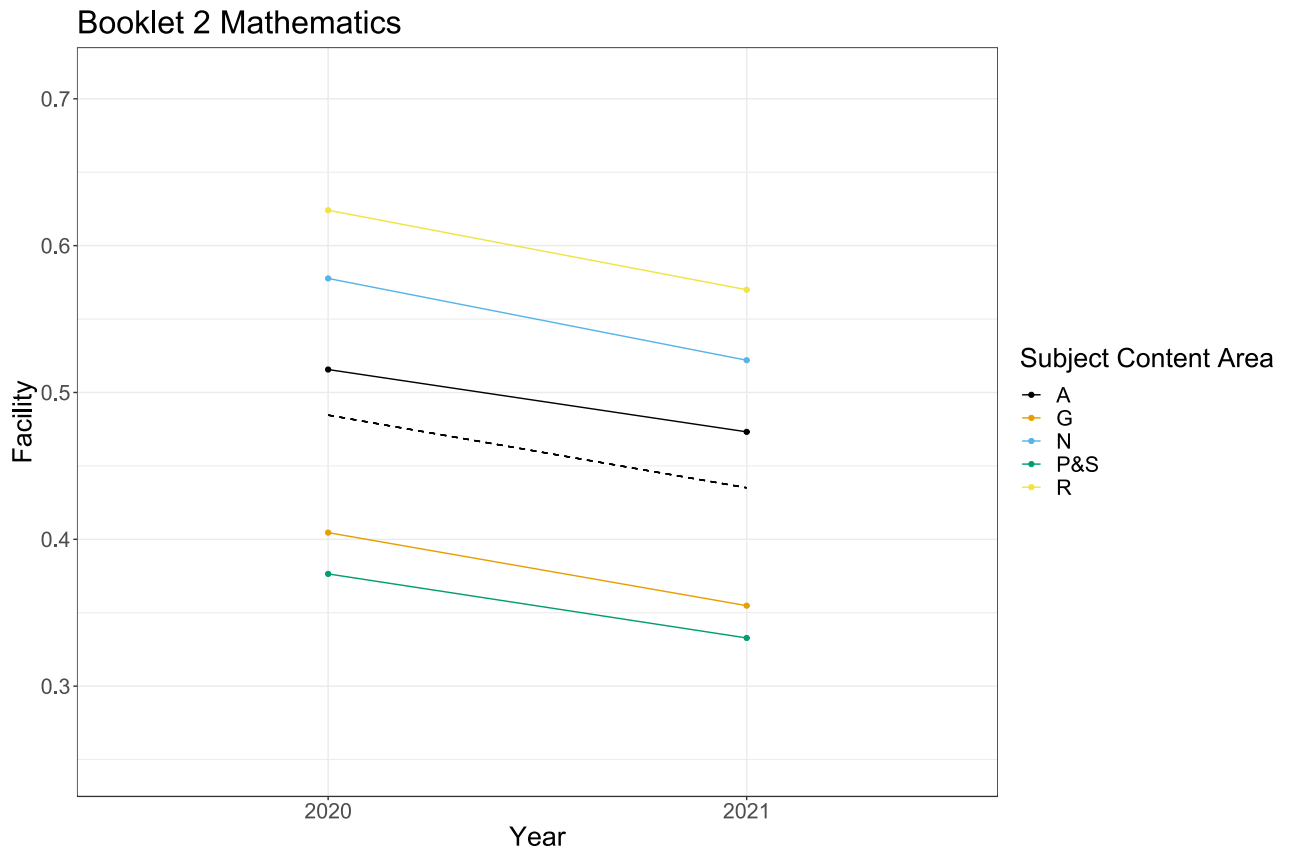


Chart showing the mean facilities for the maths subject areas in booklet 3. This shows a drop in performance is seen in almost all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

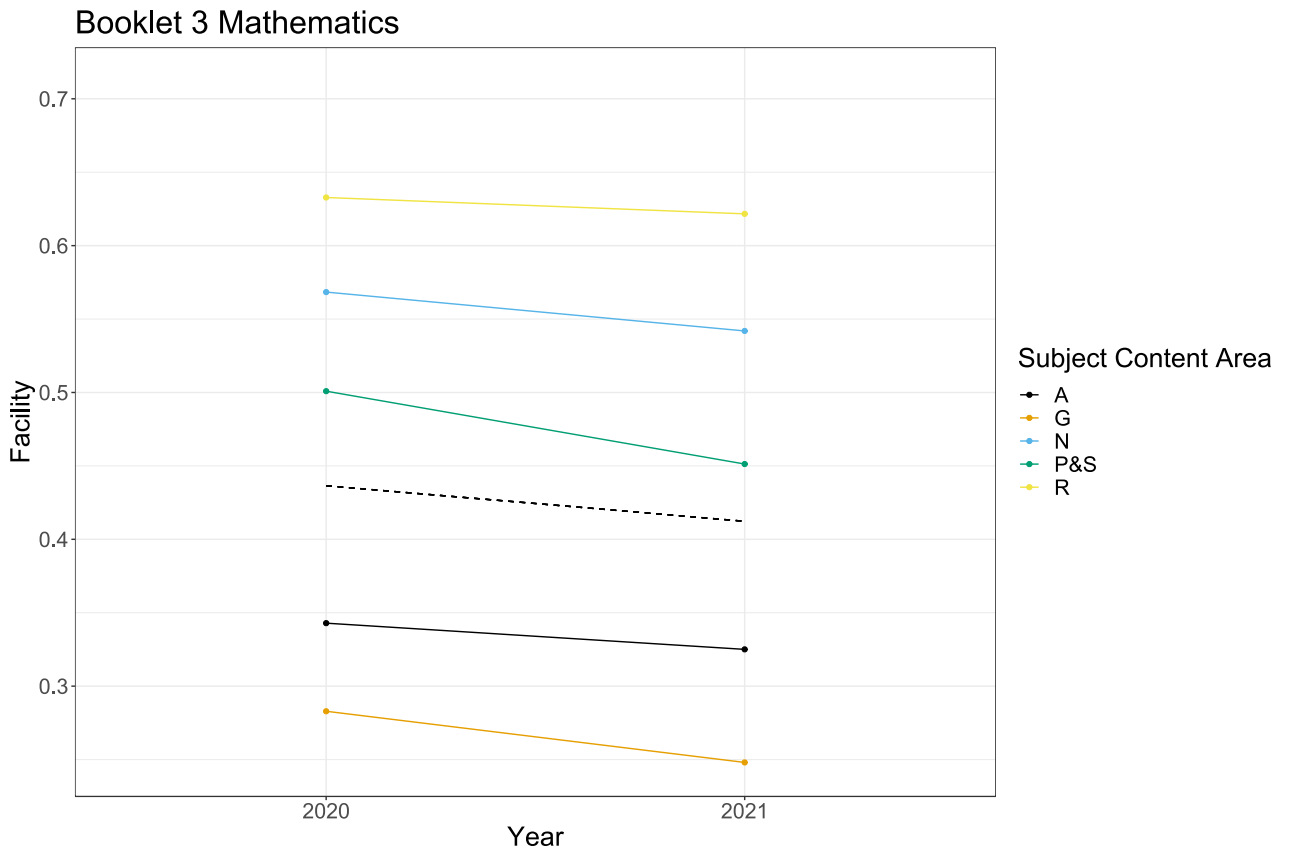


Chart showing the mean facilities for the maths subject areas in booklet 4. This shows a drop in performance is seen in all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

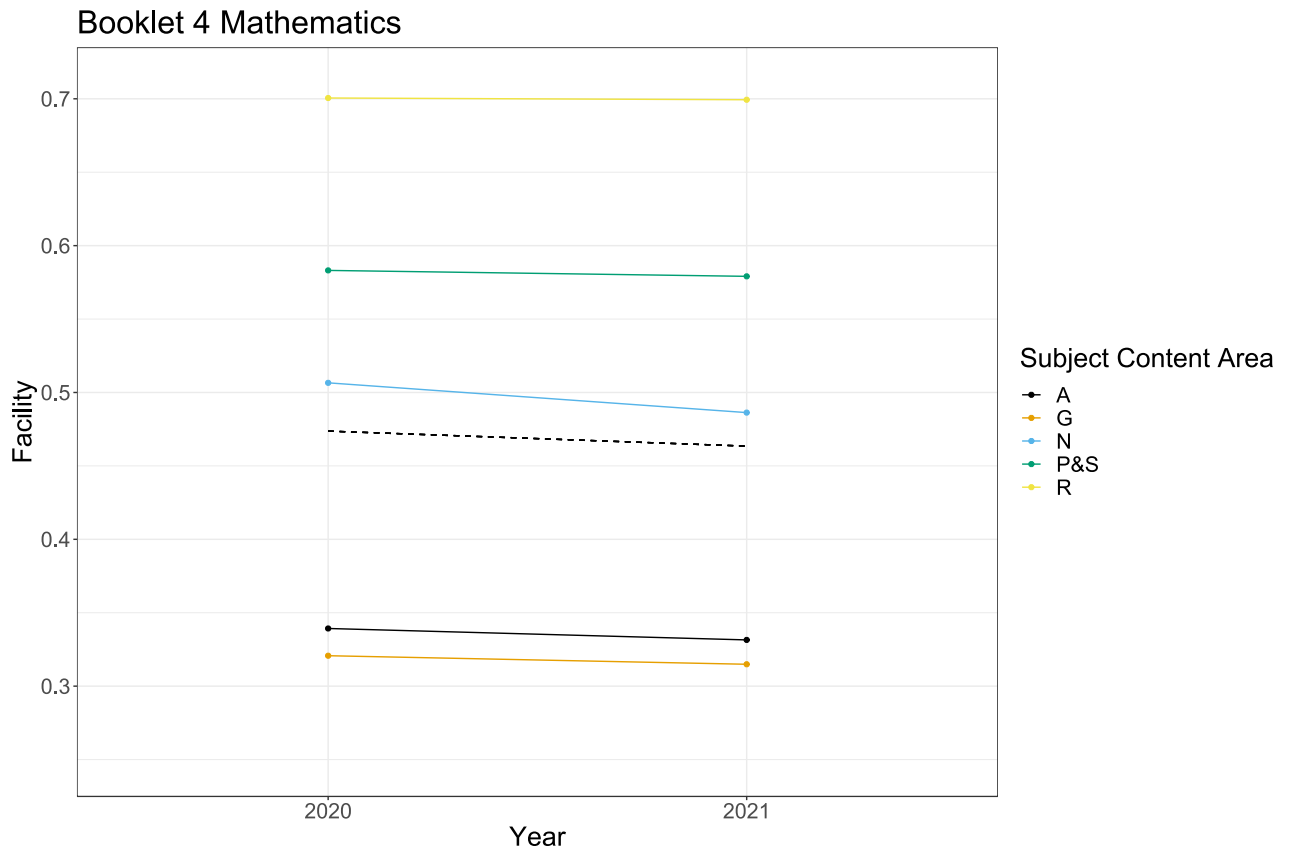


Chart showing the mean facilities for the maths subject areas in booklet 5. This shows a drop in performance is seen in almost all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

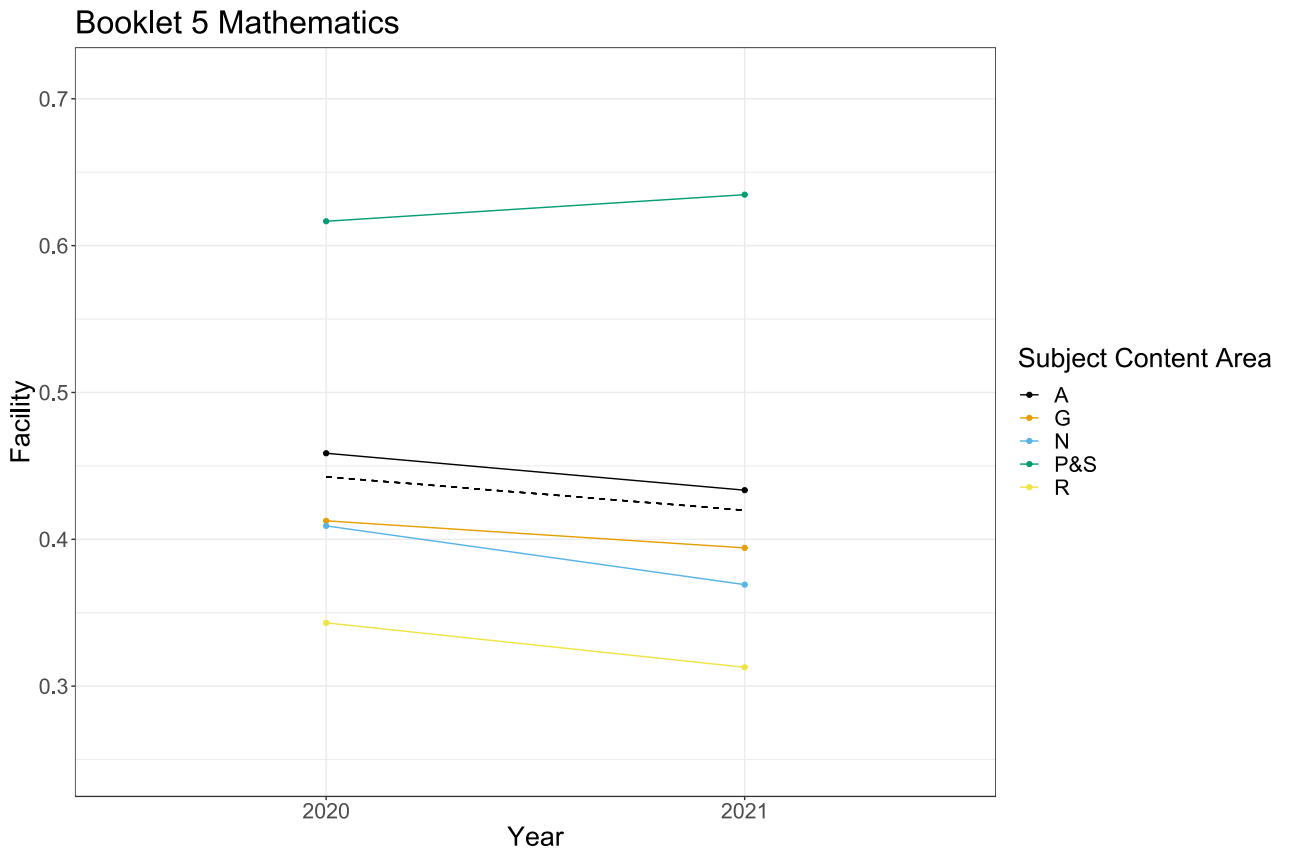


Chart showing the mean facilities for the maths subject areas in booklet 6. This shows a drop in performance is seen in all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

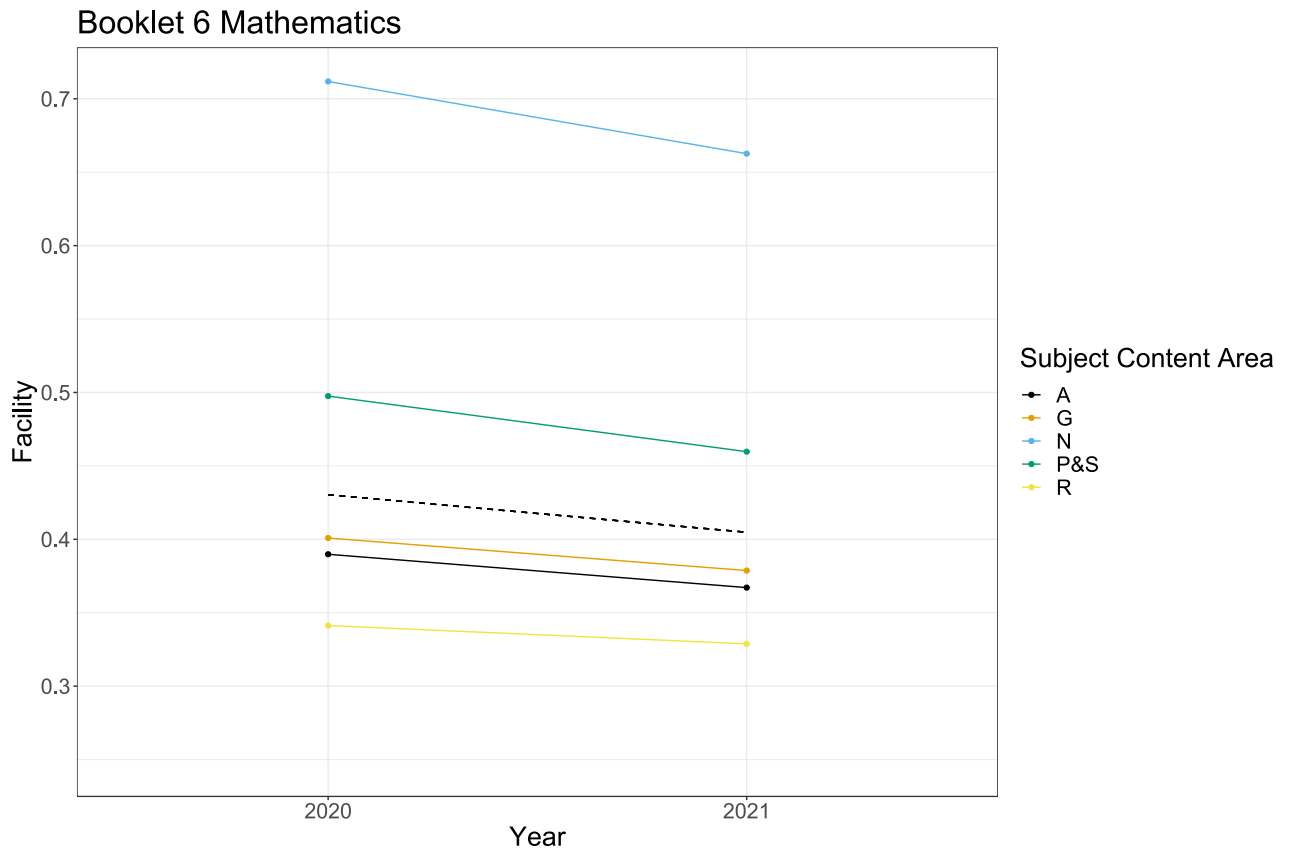


Chart showing the mean facilities for the maths subject areas in booklet 7. This shows a drop in performance is seen in all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.

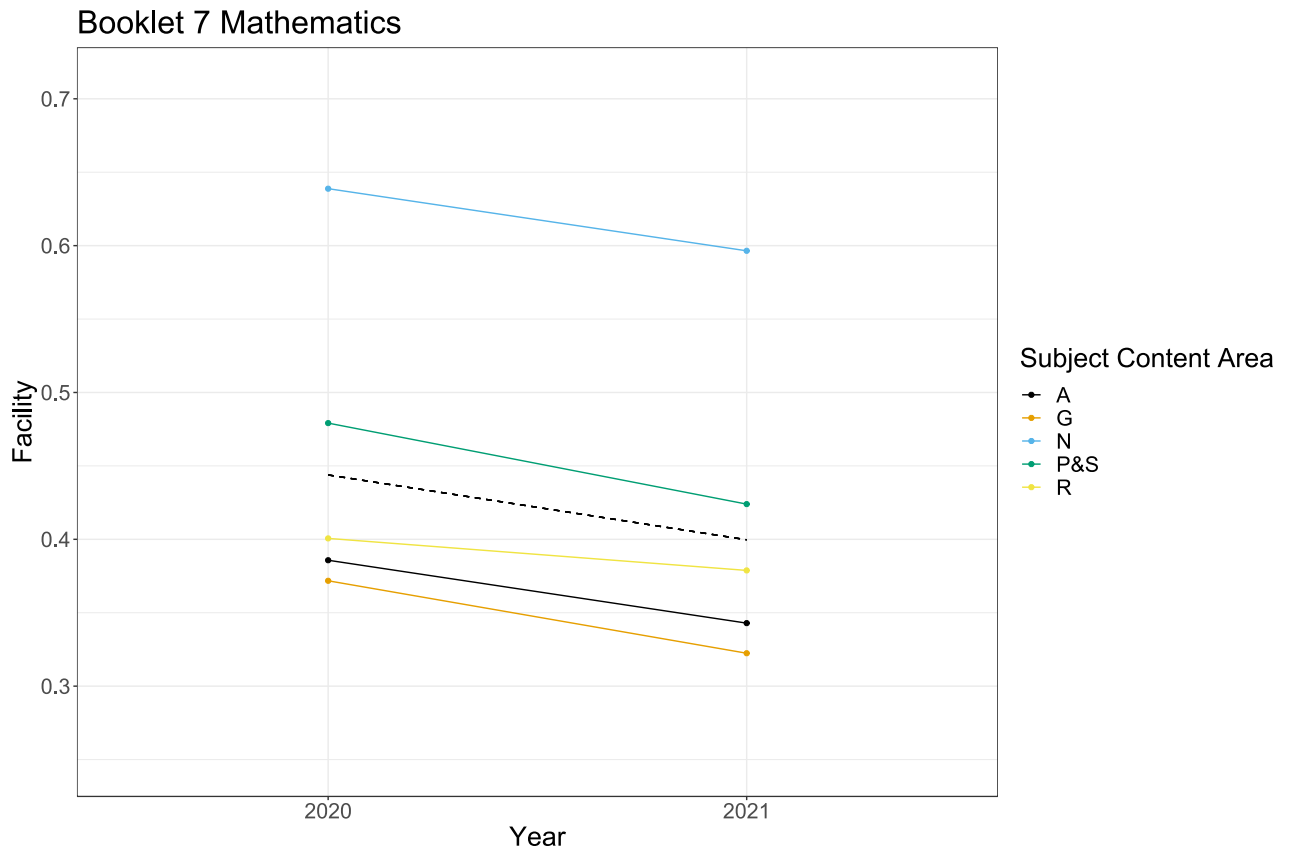
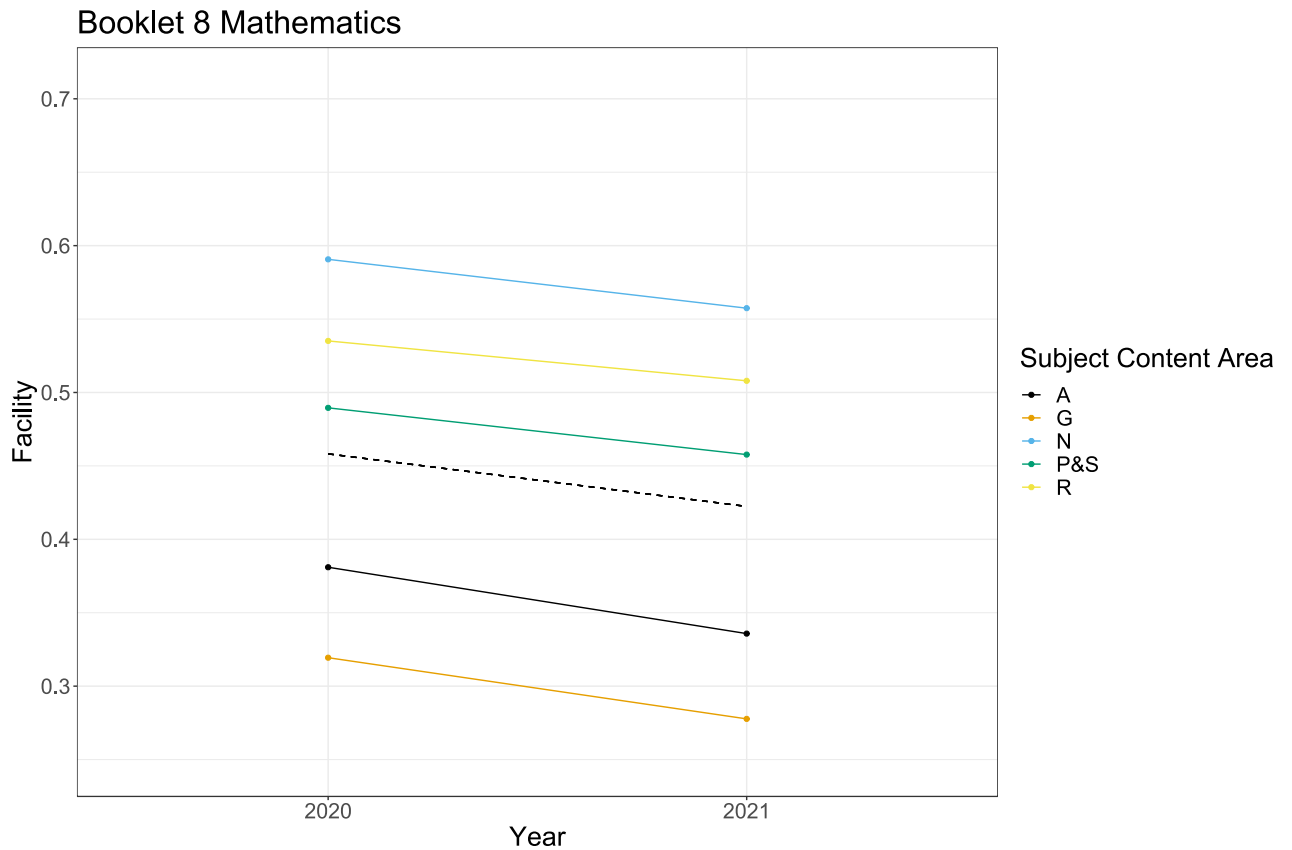




Chart showing the mean facilities for the maths subject areas in booklet 8. This shows a drop in performance is seen in all subject areas. The mean scores and standard deviations are shown in Appendix B2 Table B2.



**Table B2 Mathematics – mean scores by subject content areas**

| Booklet | Subject content area | Mean score 2020 | Mean score 2021 | SD score 2020 | SD score 2021 |
|---------|----------------------|-----------------|-----------------|---------------|---------------|
| 1       | A                    | 3.435           | 2.782           | 3.066         | 2.845         |
| 1       | G                    | 5.693           | 4.990           | 4.008         | 3.771         |
| 1       | N                    | 7.302           | 6.682           | 3.281         | 3.607         |
| 1       | P&S                  | 3.618           | 3.292           | 2.813         | 2.775         |
| 1       | R                    | 5.422           | 4.914           | 2.485         | 2.665         |
| 2       | A                    | 4.641           | 4.259           | 2.516         | 2.684         |
| 2       | G                    | 8.091           | 7.097           | 6.066         | 6.270         |
| 2       | N                    | 4.621           | 4.176           | 2.484         | 2.493         |
| 2       | P&S                  | 1.882           | 1.664           | 1.920         | 1.919         |
| 2       | R                    | 4.993           | 4.560           | 3.011         | 3.112         |
| 3       | A                    | 5.486           | 5.201           | 3.893         | 4.060         |
| 3       | G                    | 3.395           | 2.977           | 4.066         | 3.855         |
| 3       | N                    | 3.979           | 3.793           | 2.056         | 2.151         |
| 3       | P&S                  | 2.004           | 1.805           | 1.413         | 1.412         |
| 3       | R                    | 6.961           | 6.838           | 3.558         | 3.699         |
| 4       | A                    | 5.428           | 5.304           | 4.406         | 4.788         |
| 4       | G                    | 1.283           | 1.260           | 1.698         | 1.691         |
| 4       | N                    | 8.105           | 7.781           | 4.806         | 4.876         |
| 4       | P&S                  | 4.665           | 4.633           | 2.660         | 2.636         |
| 4       | R                    | 4.203           | 4.196           | 1.962         | 1.961         |
| 5       | A                    | 7.338           | 6.935           | 4.311         | 4.320         |
| 5       | G                    | 2.476           | 2.365           | 2.181         | 2.088         |
| 5       | N                    | 4.910           | 4.430           | 3.927         | 3.746         |
| 5       | P&S                  | 4.316           | 4.443           | 2.297         | 2.284         |
| 5       | R                    | 3.088           | 2.816           | 2.817         | 2.779         |

|   |     |       |       |       |       |
|---|-----|-------|-------|-------|-------|
| 6 | A   | 7.796 | 7.342 | 4.918 | 4.952 |
| 6 | G   | 3.608 | 3.409 | 2.723 | 2.747 |
| 6 | N   | 3.559 | 3.313 | 1.831 | 1.923 |
| 6 | P&S | 3.483 | 3.218 | 2.008 | 1.933 |
| 6 | R   | 3.072 | 2.959 | 2.822 | 2.826 |
| 7 | A   | 4.629 | 4.115 | 3.899 | 3.723 |
| 7 | G   | 5.576 | 4.836 | 4.265 | 3.916 |
| 7 | N   | 5.749 | 5.368 | 2.697 | 2.814 |
| 7 | P&S | 3.833 | 3.392 | 2.425 | 2.290 |
| 7 | R   | 2.404 | 2.273 | 1.746 | 1.791 |
| 8 | A   | 3.048 | 2.686 | 2.854 | 2.805 |
| 8 | G   | 4.152 | 3.610 | 3.495 | 3.424 |
| 8 | N   | 5.907 | 5.574 | 2.862 | 3.013 |
| 8 | P&S | 3.916 | 3.662 | 2.249 | 2.161 |
| 8 | R   | 5.886 | 5.587 | 2.917 | 3.069 |

**Figure B3 Mathematics – assessment objectives facilities**

Chart showing the mean facilities for the maths assessment objectives in booklet 1. This shows a drop in performance is seen in all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

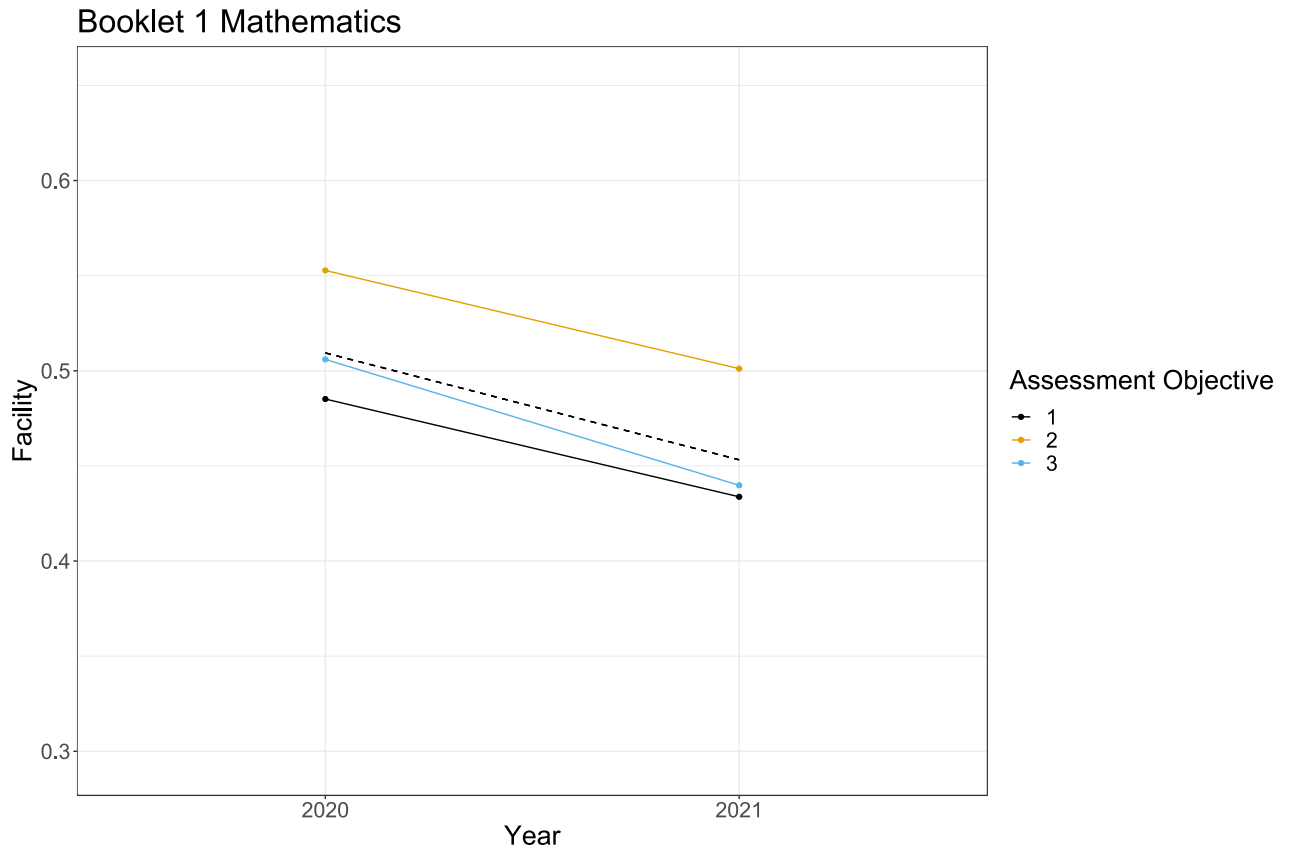


Chart showing the mean facilities for the maths assessment objectives in booklet 2. This shows a drop in performance is seen in all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

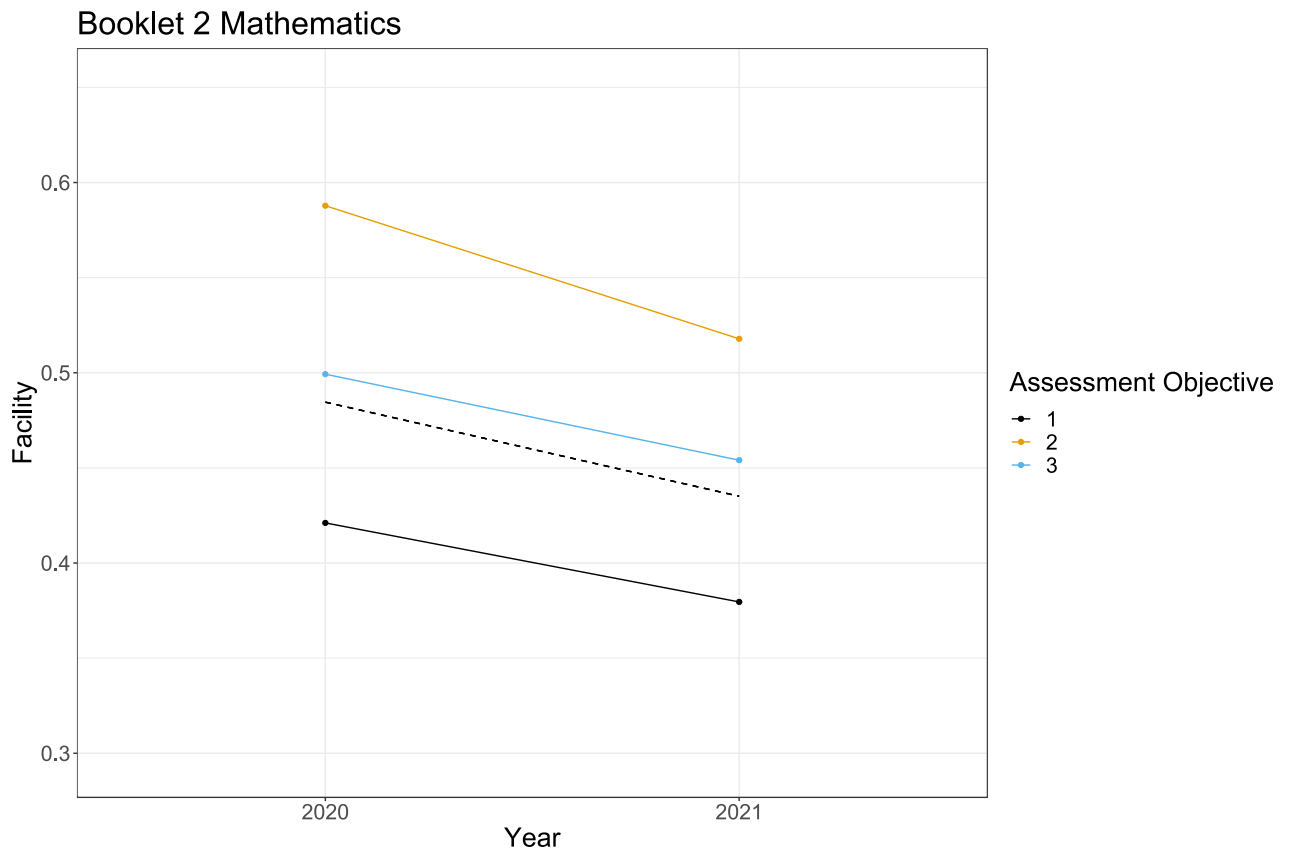


Chart showing the mean facilities for the maths assessment objectives in booklet 3. This shows a drop in performance is seen in all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

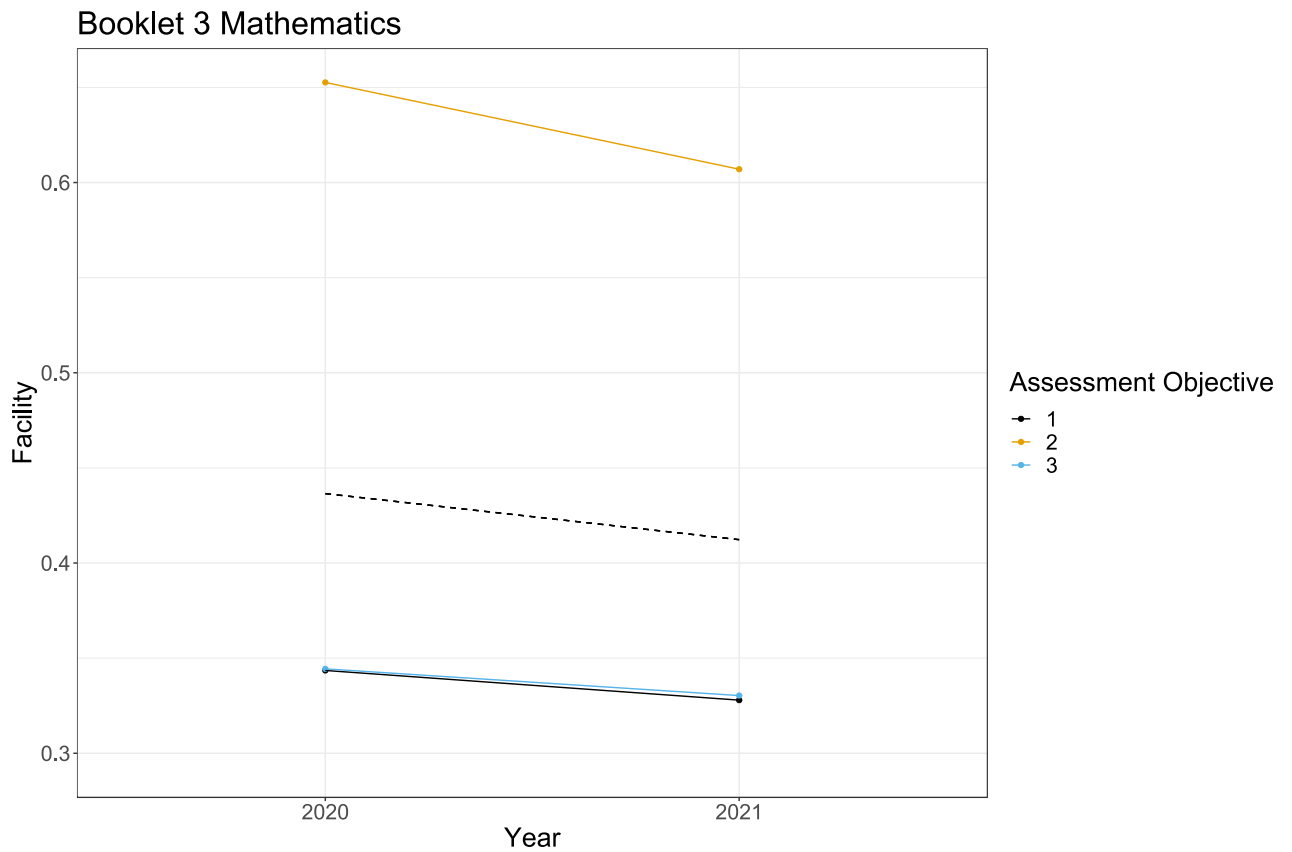


Chart showing the mean facilities for the maths assessment objectives in booklet 4. This shows a drop in performance is seen in almost all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

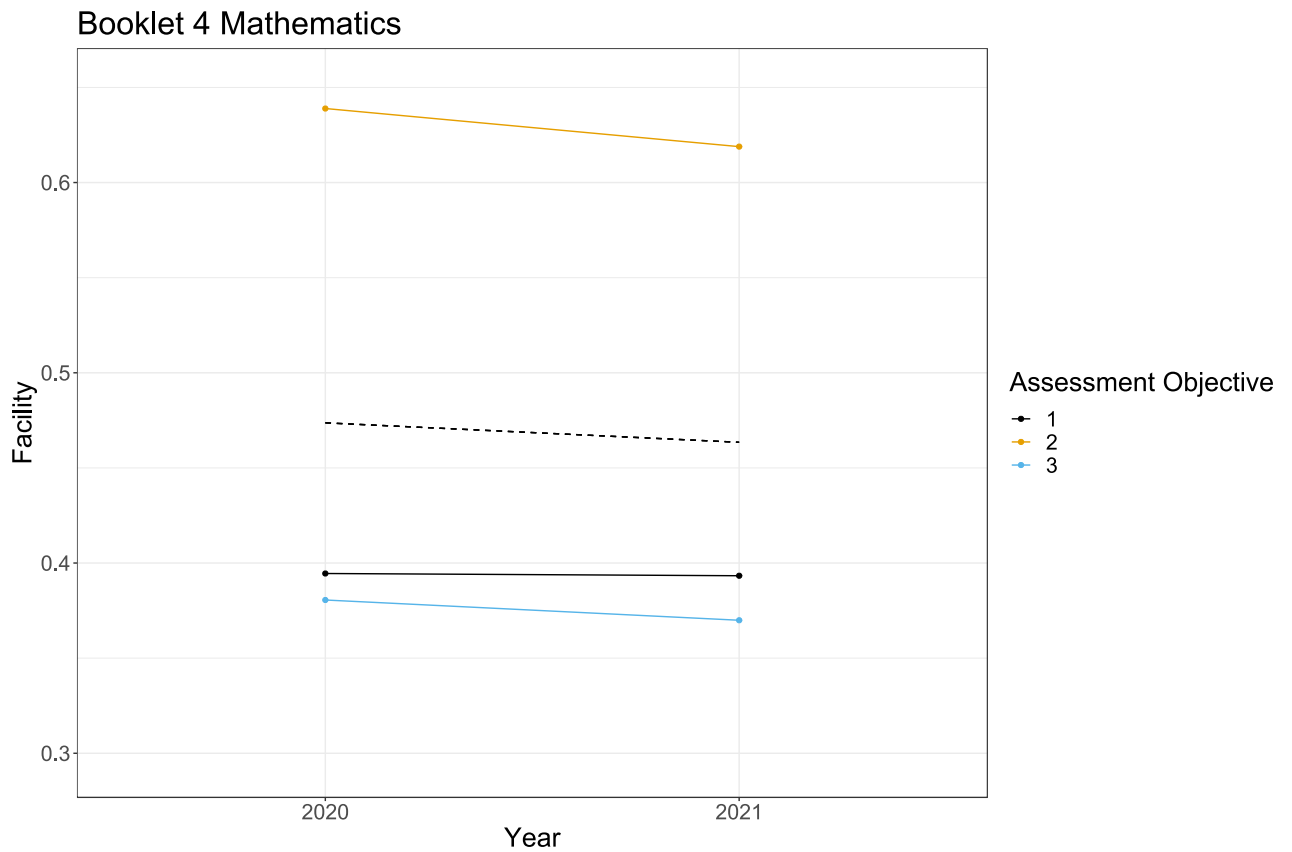


Chart showing the mean facilities for the maths assessment objectives in booklet 5. This shows a drop in performance is seen in almost all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

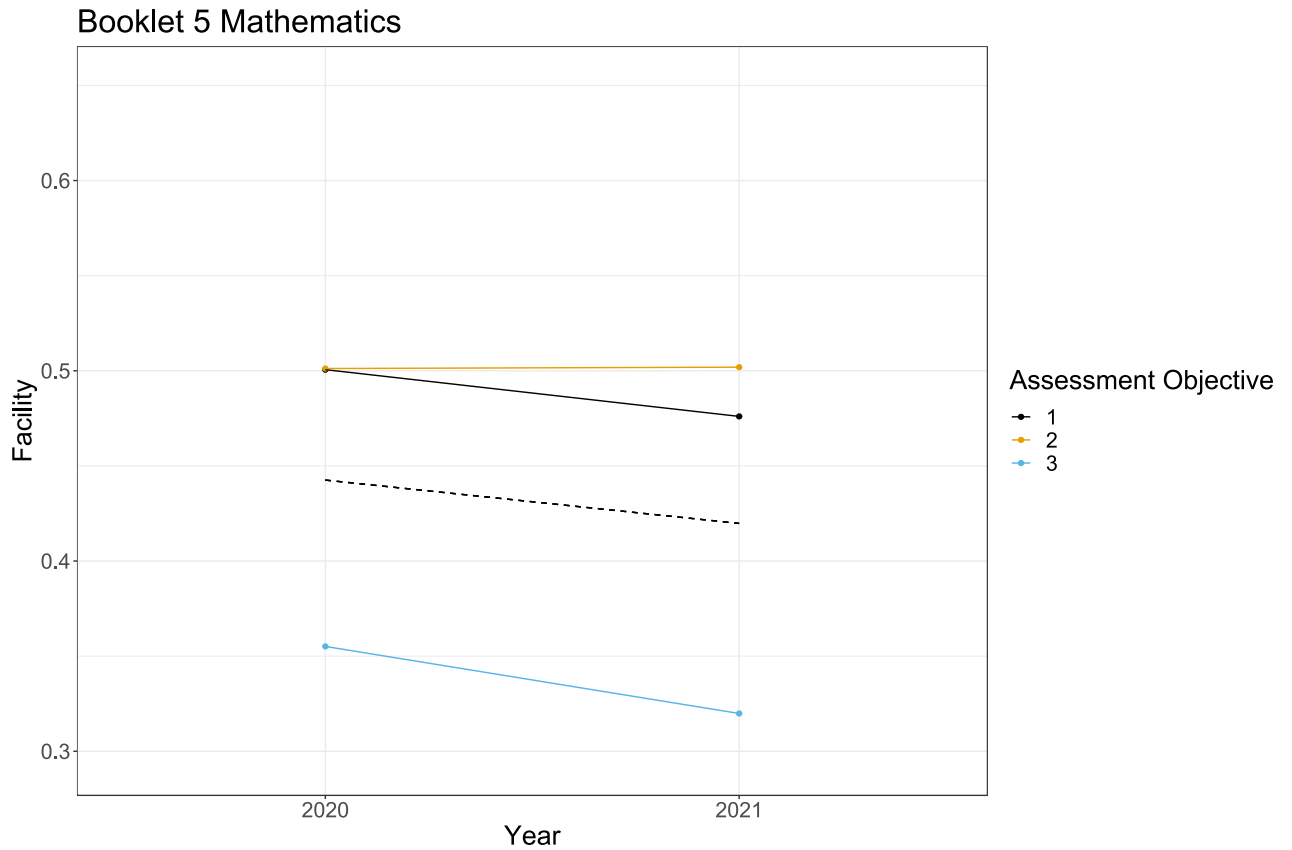




Chart showing the mean facilities for the maths assessment objectives in booklet 6. This shows a drop in performance is seen in all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

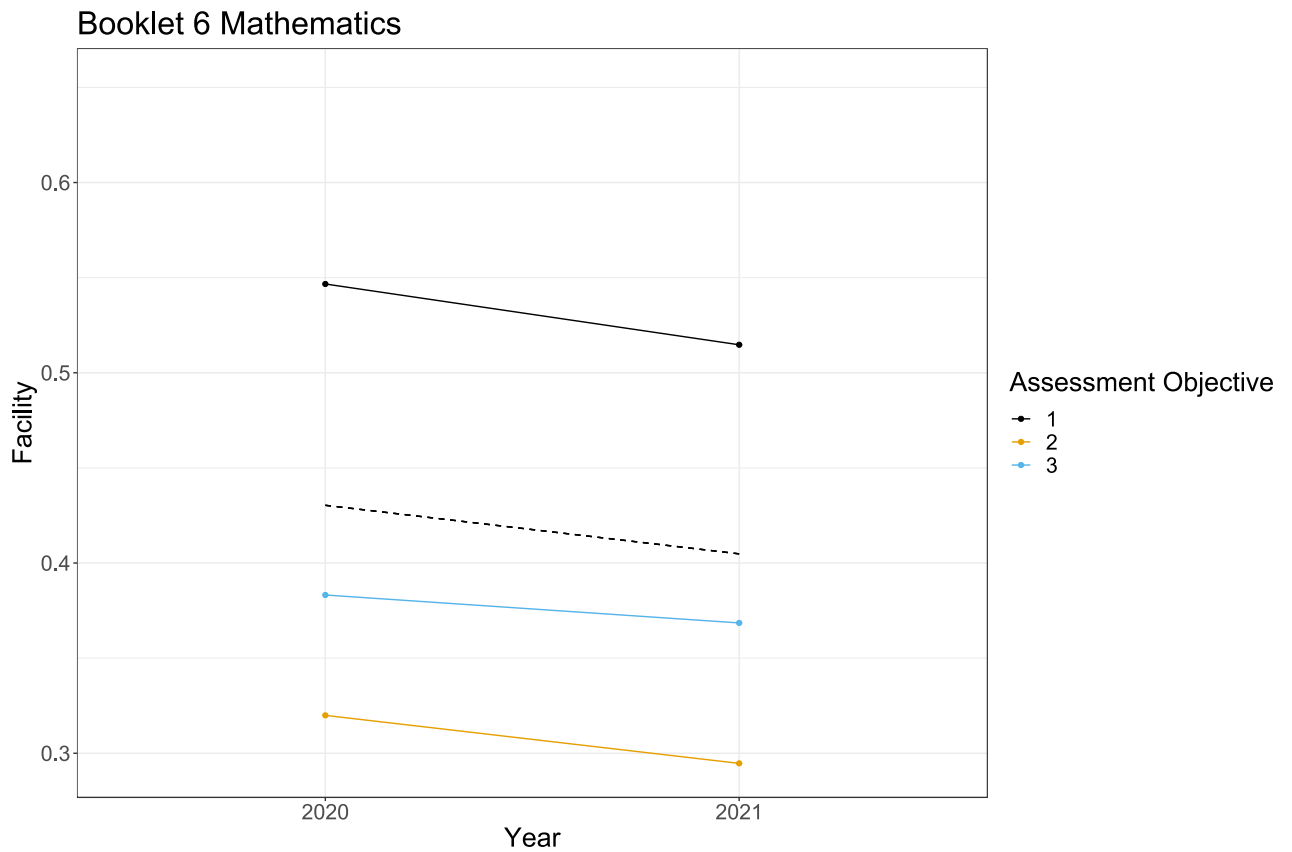


Chart showing the mean facilities for the maths assessment objectives in booklet 7. This shows a drop in performance is seen in all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.

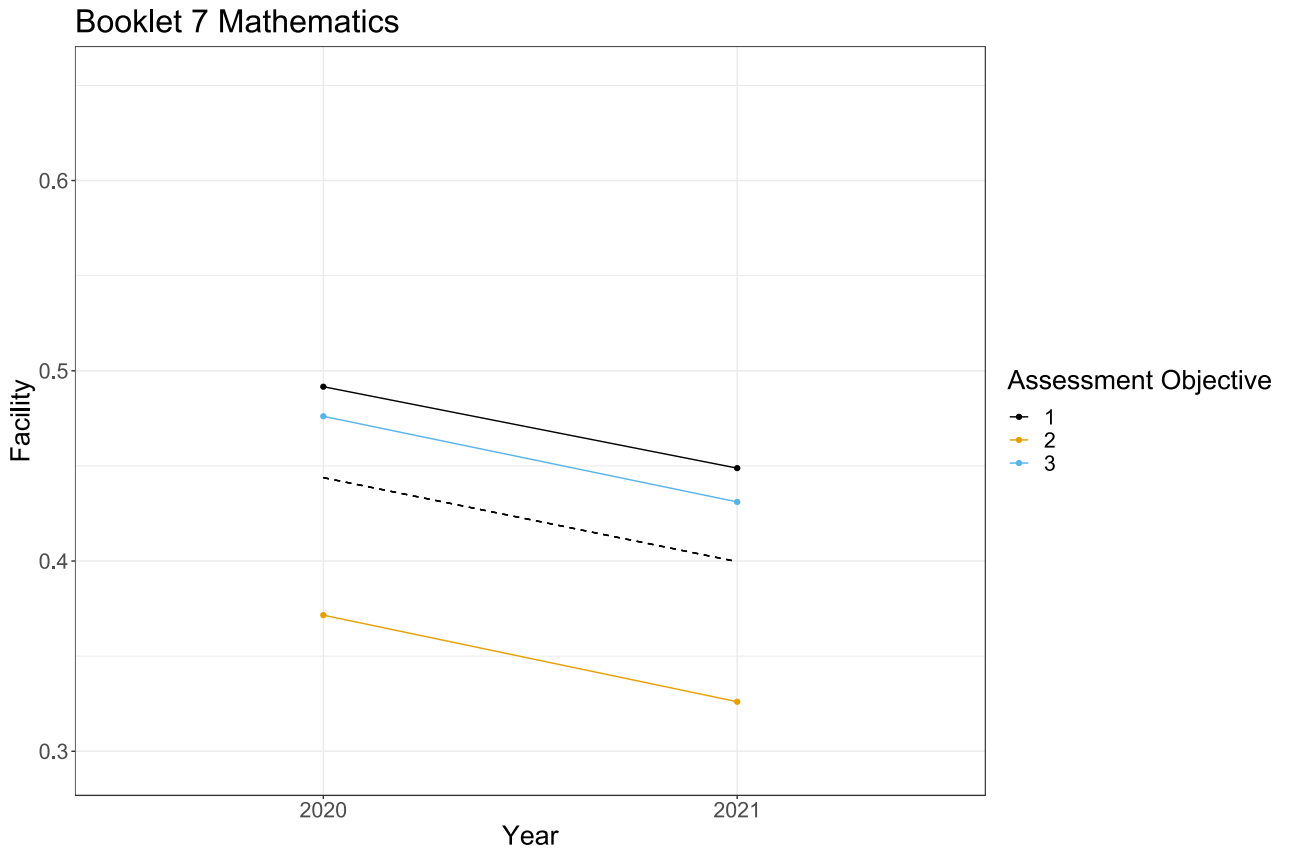
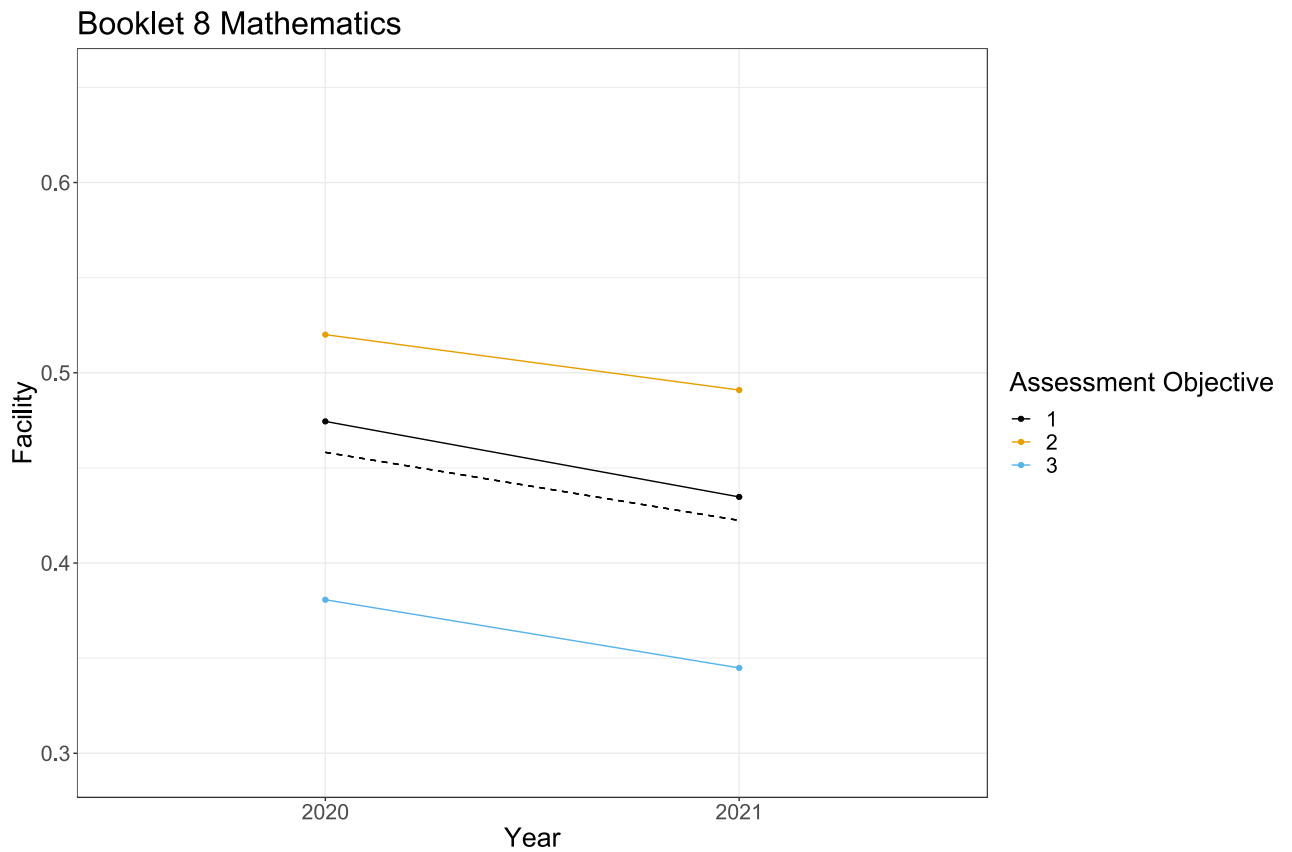


Chart showing the mean facilities for the maths assessment objectives in booklet 8. This shows a drop in performance is seen in all assessment objectives. The mean scores and standard deviations are shown in Appendix B2 Table B3.



**Table B3 Mathematics means scores by assessment objective**

| Booklet | Assessment objective | Mean score 2020 | Mean score 2021 | SD score 2020 | SD score 2021 |
|---------|----------------------|-----------------|-----------------|---------------|---------------|
| 1       | 1                    | 10.188          | 9.109           | 5.697         | 5.599         |
| 1       | 2                    | 7.186           | 6.515           | 3.703         | 3.764         |
| 1       | 3                    | 8.096           | 7.037           | 4.551         | 4.462         |
| 2       | 1                    | 9.685           | 8.730           | 6.491         | 6.528         |
| 2       | 2                    | 7.054           | 6.214           | 3.633         | 3.776         |
| 2       | 3                    | 7.489           | 6.811           | 4.446         | 4.620         |
| 3       | 1                    | 7.558           | 7.214           | 5.894         | 5.844         |
| 3       | 2                    | 9.790           | 9.105           | 3.953         | 4.123         |
| 3       | 3                    | 4.477           | 4.294           | 3.962         | 3.882         |
| 4       | 1                    | 7.495           | 7.473           | 5.019         | 5.245         |
| 4       | 2                    | 10.861          | 10.521          | 4.905         | 4.977         |
| 4       | 3                    | 5.328           | 5.179           | 4.390         | 4.551         |
| 5       | 1                    | 9.011           | 8.568           | 5.232         | 5.112         |
| 5       | 2                    | 6.014           | 6.023           | 3.292         | 3.263         |
| 5       | 3                    | 7.102           | 6.397           | 5.852         | 5.722         |
| 6       | 1                    | 11.480          | 10.809          | 5.690         | 5.837         |
| 6       | 2                    | 5.439           | 5.010           | 4.132         | 4.073         |
| 6       | 3                    | 4.598           | 4.422           | 3.089         | 3.150         |
| 7       | 1                    | 11.799          | 10.772          | 6.456         | 6.344         |
| 7       | 2                    | 7.060           | 6.195           | 5.319         | 4.992         |
| 7       | 3                    | 3.333           | 3.018           | 1.910         | 1.867         |
| 8       | 1                    | 10.438          | 9.565           | 5.542         | 5.617         |
| 8       | 2                    | 6.761           | 6.382           | 3.234         | 3.244         |
| 8       | 3                    | 5.711           | 5.173           | 4.115         | 4.113         |

**Table B4 Mathematics sub-item facilities 2020 and 2021**

| Subitem ID    | Assessment objective | subject content area | Facility 2020 | Facility 2021 |
|---------------|----------------------|----------------------|---------------|---------------|
| M102_202_X1   | 2                    | P&S                  | 0.73926       | 0.680892      |
| M102_202_X2   | 1                    | R                    | 0.720167      | 0.653734      |
| M102_202_X3   | 2                    | R                    | 0.585322      | 0.519884      |
| M103_203_X1   | 3                    | N                    | 0.838305      | 0.777886      |
| M103_203_X2   | 1                    | N                    | 0.78222       | 0.737148      |
| M103_203_X3   | 3                    | N                    | 0.841885      | 0.786615      |
| M103_203_X4   | 1                    | N                    | 0.671838      | 0.631426      |
| M103_203_X5   | 3                    | N                    | 0.597852      | 0.553831      |
| M105_204_X1   | 3                    | G                    | 0.705251      | 0.627546      |
| M105_204_X2   | 1                    | N                    | 0.668258      | 0.599418      |
| M105_204_X3   | 1                    | G                    | 0.634845      | 0.561591      |
| M106_207_X1   | 1                    | A                    | 0.72494       | 0.686712      |
| M106_207_X2   | 1                    | A                    | 0.541169      | 0.479146      |
| M108_208_A1_1 | 2                    | G                    | 0.654535      | 0.609117      |
| M108_208_A2_1 | 1                    | G                    | 0.529236      | 0.493695      |
| M108_208_B1   | 2                    | G                    | 0.683174      | 0.621726      |
| M108_208_B2   | 2                    | G                    | 0.443914      | 0.375364      |
| M108_208_B3   | 2                    | G                    | 0.383652      | 0.304559      |
| M109_209_A1   | 2                    | P&S                  | 0.560263      | 0.483996      |
| M109_209_A2   | 2                    | P&S                  | 0.415274      | 0.380213      |
| M109_209_B1   | 3                    | P&S                  | 0.424821      | 0.373424      |
| M109_209_B2   | 1                    | P&S                  | 0.279236      | 0.234724      |
| M109_209_B3   | 1                    | P&S                  | 0.220167      | 0.191077      |
| M113_213_X1   | 1                    | A                    | 0.2142        | 0.183317      |
| M113_213_X2   | 1                    | A                    | 0.168854      | 0.13967       |

| Subitem ID  | Assessment objective | subject content area | Facility 2020 | Facility 2021 |
|-------------|----------------------|----------------------|---------------|---------------|
| M201_303_A1 | 2                    | A                    | 0.74477       | 0.670223      |
| M201_303_B1 | 2                    | A                    | 0.642558      | 0.57808       |
| M201_303_B2 | 1                    | R                    | 0.466228      | 0.42192       |
| M201_303_C1 | 2                    | A                    | 0.80275       | 0.738118      |
| M201_303_C2 | 2                    | A                    | 0.390915      | 0.336566      |
| M205_305_X1 | 3                    | R                    | 0.635983      | 0.609117      |
| M205_305_X2 | 3                    | R                    | 0.579797      | 0.553831      |
| M205_305_X3 | 3                    | R                    | 0.631201      | 0.617847      |
| M205_305_X4 | 1                    | N                    | 0.53676       | 0.513094      |
| M205_305_X5 | 3                    | N                    | 0.477585      | 0.451018      |
| M206_306_X1 | 1                    | G                    | 0.368201      | 0.320078      |
| M206_306_X2 | 1                    | G                    | 0.306037      | 0.276431      |
| M206_306_X3 | 1                    | G                    | 0.176928      | 0.162949      |
| M210_309_X1 | 1                    | G                    | 0.391512      | 0.329777      |
| M210_309_X2 | 3                    | G                    | 0.364017      | 0.293889      |
| M210_309_X3 | 3                    | G                    | 0.225941      | 0.204656      |
| M210_309_X4 | 3                    | N                    | 0.205619      | 0.187197      |
| M211_310_X1 | 3                    | G                    | 0.454274      | 0.42192       |
| M211_310_X2 | 1                    | G                    | 0.298267      | 0.260912      |
| M211_310_X3 | 3                    | R                    | 0.240885      | 0.225024      |
| M211_310_X4 | 3                    | R                    | 0.175732      | 0.14743       |
| M211_310_X5 | 1                    | N                    | 0.17633       | 0.153249      |
| M212_312_X1 | 1                    | N                    | 0.297669      | 0.263822      |
| M212_312_X2 | 1                    | N                    | 0.273162      | 0.231814      |
| M212_312_X3 | 1                    | N                    | 0.256426      | 0.215325      |

| Subitem ID     | Assessment objective | subject content area | Facility 2020 | Facility 2021 |
|----------------|----------------------|----------------------|---------------|---------------|
| M301_401_X1    | 1                    | R                    | 0.83597       | 0.826718      |
| M301_401_X2    | 1                    | R                    | 0.776801      | 0.755082      |
| M302_402_A1    | 2                    | N                    | 0.883421      | 0.845111      |
| M302_402_A2    | 2                    | N                    | 0.847686      | 0.812197      |
| M302_402_B1    | 2                    | N                    | 0.730521      | 0.703775      |
| M302_402_B2    | 2                    | N                    | 0.671353      | 0.653437      |
| M304_404_X1_V2 | 2                    | P&S                  | 0.662566      | 0.659245      |
| M304_404_X2_V2 | 2                    | R                    | 0.865261      | 0.835431      |
| M304_404_X3_V2 | 1                    | R                    | 0.558875      | 0.569216      |
| M304_404_X4_V2 | 2                    | R                    | 0.496778      | 0.485963      |
| M307_407_X1    | 1                    | A                    | 0.605155      | 0.594385      |
| M307_407_X2    | 1                    | A                    | 0.564148      | 0.550823      |
| M308_408_A1_1  | 2                    | P&S                  | 0.678969      | 0.667957      |
| M308_408_A2_1  | 2                    | P&S                  | 0.492091      | 0.435624      |
| M308_408_B1    | 2                    | P&S                  | 0.482718      | 0.451113      |
| M308_408_B2    | 2                    | P&S                  | 0.346807      | 0.324298      |
| M311_411_X1    | 3                    | G                    | 0.362624      | 0.352372      |
| M311_411_X2    | 3                    | A                    | 0.144698      | 0.164569      |
| M311_411_X3    | 1                    | A                    | 0.15993       | 0.181994      |
| M311_411_X4    | 1                    | A                    | 0.116579      | 0.125847      |
| M311_411_X5    | 3                    | A                    | 0.070885      | 0.083253      |
| M313_413_X1    | 1                    | A                    | 0.173989      | 0.17909       |
| M313_413_X2    | 1                    | A                    | 0.12478       | 0.135528      |
| M313_413_X3    | 1                    | A                    | 0.126538      | 0.135528      |
| M313_413_X4    | 1                    | A                    | 0.037493      | 0.040658      |
| M403_502_X1    | 2                    | P&S                  | 0.776801      | 0.780115      |
| M403_502_X2    | 2                    | P&S                  | 0.592853      | 0.602294      |

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| M403_502_X3 | 1                    | P&S                  | 0.703574      | 0.713193      |
| M403_502_X4 | 2                    | P&S                  | 0.545987      | 0.556405      |
| M405_504_A1 | 3                    | A                    | 0.644405      | 0.59847       |
| M405_504_A2 | 3                    | A                    | 0.608084      | 0.558317      |
| M405_504_A3 | 1                    | A                    | 0.600469      | 0.555449      |
| M405_504_B1 | 3                    | A                    | 0.54833       | 0.478967      |
| M405_504_B2 | 1                    | R                    | 0.420621      | 0.382409      |
| M406_506_A1 | 2                    | N                    | 0.695372      | 0.669216      |
| M406_506_A2 | 2                    | N                    | 0.552431      | 0.541109      |
| M406_506_B1 | 2                    | N                    | 0.508494      | 0.384321      |
| M406_506_C1 | 3                    | N                    | 0.668424      | 0.64914       |
| M409_509_X1 | 3                    | G                    | 0.334505      | 0.328872      |
| M409_509_X2 | 3                    | G                    | 0.356766      | 0.347992      |
| M409_509_X3 | 1                    | G                    | 0.344464      | 0.31262       |
| M409_509_X4 | 3                    | R                    | 0.222613      | 0.195985      |
| M410_510_X1 | 3                    | N                    | 0.447569      | 0.422562      |
| M410_510_X2 | 1                    | R                    | 0.37727       | 0.358509      |
| M410_510_X3 | 3                    | N                    | 0.308143      | 0.285851      |
| M410_510_X4 | 3                    | N                    | 0.314001      | 0.291587      |
| M410_510_X5 | 3                    | N                    | 0.20621       | 0.185468      |
| M412_512_A1 | 1                    | N                    | 0.436438      | 0.402486      |
| M412_512_B1 | 1                    | N                    | 0.250146      | 0.222753      |
| M412_512_B2 | 1                    | N                    | 0.203866      | 0.183556      |
| M501_601_A1 | 1                    | A                    | 0.896429      | 0.877885      |
| M501_601_B1 | 1                    | A                    | 0.8           | 0.753846      |
| M501_601_B2 | 1                    | A                    | 0.6625        | 0.623077      |
| M503_602_A1 | 2                    | P&S                  | 0.882143      | 0.874038      |

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| M503_602_B1   | 2                    | P&S                  | 0.497024      | 0.516346      |
| M503_602_B2   | 2                    | P&S                  | 0.391071      | 0.438462      |
| M505_604_A1   | 1                    | A                    | 0.578571      | 0.578846      |
| M505_604_B1   | 1                    | A                    | 0.635119      | 0.568269      |
| M507_607_X1   | 1                    | G                    | 0.673214      | 0.664423      |
| M507_607_X2   | 1                    | N                    | 0.567262      | 0.565385      |
| M508_609_A1   | 3                    | R                    | 0.5625        | 0.552885      |
| M508_609_A2   | 3                    | R                    | 0.45119       | 0.4375        |
| M508_609_B1   | 3                    | R                    | 0.31131       | 0.296154      |
| M508_609_B2   | 3                    | R                    | 0.178571      | 0.166346      |
| M508_609_B3   | 3                    | R                    | 0.155357      | 0.150962      |
| M511_610_A1   | 3                    | R                    | 0.335714      | 0.286538      |
| M511_610_A2   | 3                    | R                    | 0.3           | 0.252885      |
| M511_610_A3   | 1                    | R                    | 0.271429      | 0.232692      |
| M511_610_B1   | 2                    | R                    | 0.51369       | 0.510577      |
| M513_613_A1   | 1                    | A                    | 0.578571      | 0.597115      |
| M513_613_B1_1 | 2                    | G                    | 0.085119      | 0.095192      |
| M513_613_B1_2 | 2                    | A                    | 0.079167      | 0.082692      |
| M513_613_B2_1 | 3                    | A                    | 0.155952      | 0.146154      |
| M513_613_B2_2 | 1                    | A                    | 0.143452      | 0.133654      |
| M513_613_B2_3 | 3                    | A                    | 0.025595      | 0.024038      |
| M603_704_X1   | 3                    | N                    | 0.889741      | 0.84518       |
| M603_704_X2   | 1                    | N                    | 0.748821      | 0.687439      |
| M603_704_X3   | 3                    | N                    | 0.706958      | 0.67186       |
| M603_704_X4   | 1                    | R                    | 0.650354      | 0.599805      |
| M603_704_X5   | 3                    | N                    | 0.568396      | 0.519961      |
| M605_706_A1   | 1                    | A                    | 0.599646      | 0.576436      |

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| M605_706_A2   | 1                    | A                    | 0.489387      | 0.461538      |
| M605_706_B1   | 2                    | A                    | 0.455778      | 0.402142      |
| M605_706_B2   | 2                    | A                    | 0.313679      | 0.280428      |
| M605_706_B3   | 1                    | A                    | 0.299528      | 0.264849      |
| M606_708_A1   | 1                    | P&S                  | 0.799528      | 0.743914      |
| M606_708_B1   | 2                    | P&S                  | 0.335495      | 0.259007      |
| M606_708_B2   | 2                    | P&S                  | 0.310731      | 0.238559      |
| M606_708_B3   | 2                    | P&S                  | 0.247052      | 0.178189      |
| M608_710_A1_1 | 2                    | A                    | 0.407429      | 0.360273      |
| M608_710_A2_1 | 2                    | A                    | 0.237618      | 0.208374      |
| M608_710_B1   | 1                    | A                    | 0.222877      | 0.164557      |
| M608_710_B2   | 2                    | A                    | 0.129127      | 0.079844      |
| M611_712_A1   | 1                    | G                    | 0.59316       | 0.552093      |
| M611_712_A2   | 1                    | G                    | 0.464623      | 0.428432      |
| M611_712_B1   | 2                    | G                    | 0.341392      | 0.308666      |
| M611_712_C1   | 2                    | G                    | 0.173349      | 0.140214      |
| M611_712_C2   | 2                    | G                    | 0.098467      | 0.070107      |
| M612_713_A1   | 1                    | G                    | 0.440448      | 0.397274      |
| M612_713_B1   | 1                    | G                    | 0.252358      | 0.232717      |
| M701_802_X1   | 1                    | R                    | 0.726521      | 0.697786      |
| M701_802_X2   | 1                    | R                    | 0.144123      | 0.14437       |
| M702_803_A1   | 2                    | P&S                  | 0.969876      | 0.965351      |
| M702_803_B1   | 2                    | P&S                  | 0.412286      | 0.368624      |
| M702_803_B2   | 1                    | R                    | 0.395157      | 0.3436        |
| M702_803_B3   | 2                    | R                    | 0.369167      | 0.322425      |
| M703_805_A1   | 1                    | G                    | 0.565859      | 0.524543      |
| M703_805_B1   | 1                    | G                    | 0.484938      | 0.384986      |

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| M703_805_C1 | 1                    | G                    | 0.645009      | 0.59384       |
| M705_807_A1 | 1                    | N                    | 0.853514      | 0.828681      |
| M705_807_B1 | 2                    | N                    | 0.464265      | 0.430221      |
| M705_807_C1 | 2                    | N                    | 0.498523      | 0.413859      |
| M705_807_C2 | 2                    | N                    | 0.368576      | 0.392685      |
| M707_808_A1 | 1                    | G                    | 0.536917      | 0.481232      |
| M707_808_B1 | 1                    | G                    | 0.536326      | 0.512993      |
| M709_809_A1 | 1                    | A                    | 0.594211      | 0.546679      |
| M709_809_B1 | 2                    | A                    | 0.531601      | 0.482194      |
| M709_809_B2 | 2                    | A                    | 0.319551      | 0.274302      |
| M711_810_X1 | 3                    | R                    | 0.6456        | 0.606352      |
| M711_810_X2 | 1                    | R                    | 0.590667      | 0.536092      |
| M711_810_X3 | 3                    | R                    | 0.21264       | 0.194418      |
| M711_810_X4 | 1                    | R                    | 0.13231       | 0.133782      |
| M714_814_X1 | 3                    | G                    | 0.168931      | 0.115496      |
| M714_814_X2 | 1                    | G                    | 0.165978      | 0.110683      |
| M714_814_X3 | 3                    | G                    | 0.134672      | 0.087584      |
| M801_101_X1 | 1                    | P&S                  | 0.62381       | 0.590953      |
| M804_104_A1 | 2                    | R                    | 0.844643      | 0.806545      |
| M804_104_A2 | 2                    | N                    | 0.532143      | 0.471607      |
| M804_104_B1 | 3                    | R                    | 0.790476      | 0.73051       |
| M804_104_B2 | 3                    | R                    | 0.74881       | 0.694899      |
| M804_104_B3 | 1                    | R                    | 0.463095      | 0.438884      |
| M806_107_A1 | 2                    | N                    | 0.833929      | 0.790183      |
| M806_107_A2 | 1                    | N                    | 0.783929      | 0.733397      |
| M806_107_A3 | 2                    | N                    | 0.559524      | 0.512993      |
| M806_107_B1 | 3                    | N                    | 0.442262      | 0.39461       |

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| M806_107_B2 | 3                    | N                    | 0.717857      | 0.655438      |
| M806_107_B3 | 1                    | N                    | 0.317857      | 0.274302      |
| M811_110_A1 | 1                    | A                    | 0.203571      | 0.171319      |
| M811_110_B1 | 3                    | A                    | 0.417857      | 0.350337      |
| M811_110_B2 | 3                    | A                    | 0.36369       | 0.298364      |
| M811_110_B3 | 1                    | A                    | 0.348214      | 0.289702      |
| M811_110_B4 | 3                    | A                    | 0.32381       | 0.268527      |
| M812_111_X1 | 3                    | G                    | 0.285714      | 0.231954      |
| M812_111_X2 | 3                    | G                    | 0.23631       | 0.176131      |
| M812_111_X3 | 3                    | G                    | 0.179762      | 0.142445      |
| M812_111_X4 | 1                    | N                    | 0.125595      | 0.095284      |
| M812_111_X5 | 3                    | N                    | 0.122024      | 0.093359      |
| M813_112_A1 | 1                    | P&S                  | 0.61369       | 0.570741      |
| M813_112_B1 | 1                    | P&S                  | 0.48869       | 0.446583      |
| M813_112_C1 | 2                    | P&S                  | 0.004167      | 0.00385       |



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