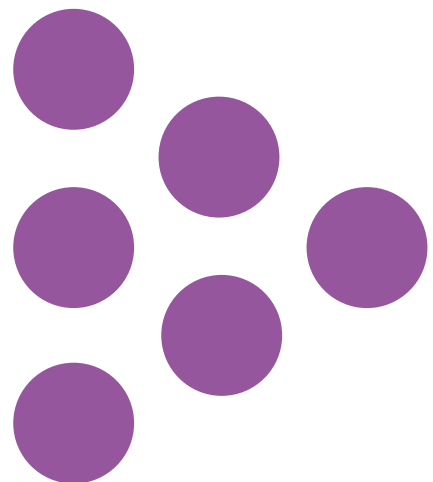


Appendix A

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

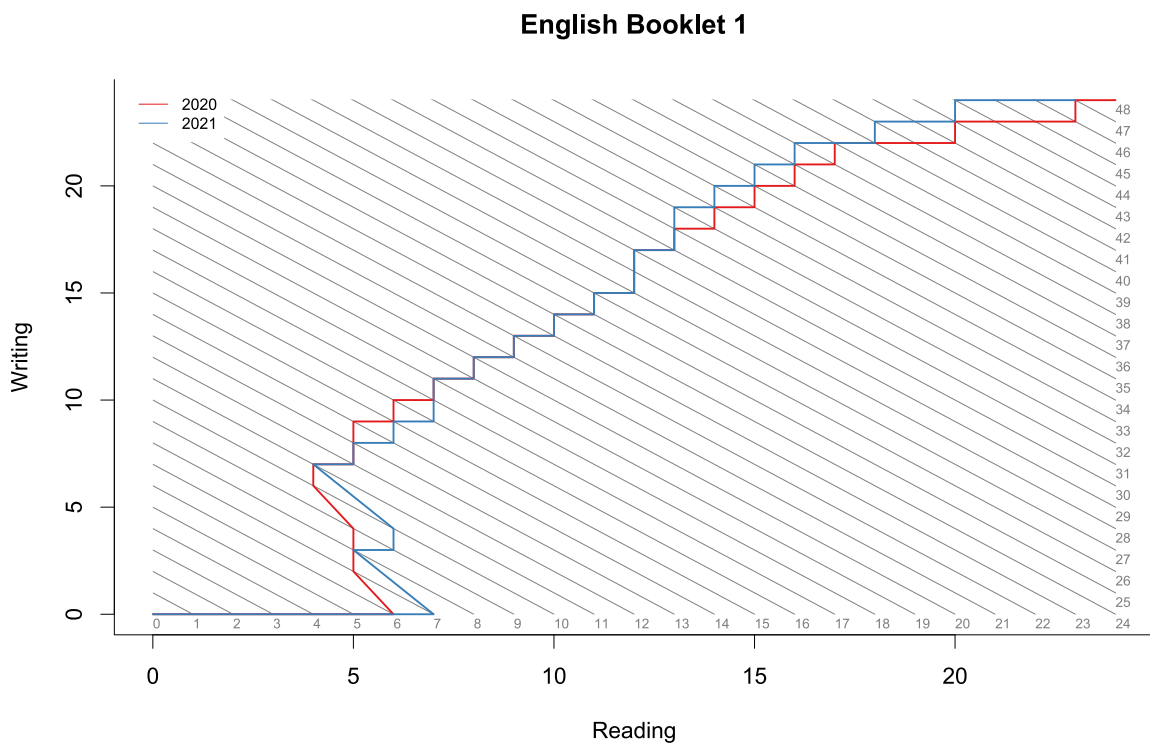
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A1 English profile plots	3
A2 Mathematics profile plots.....	34

Appendix A: Profile plots for all assessment objectives and subject areas

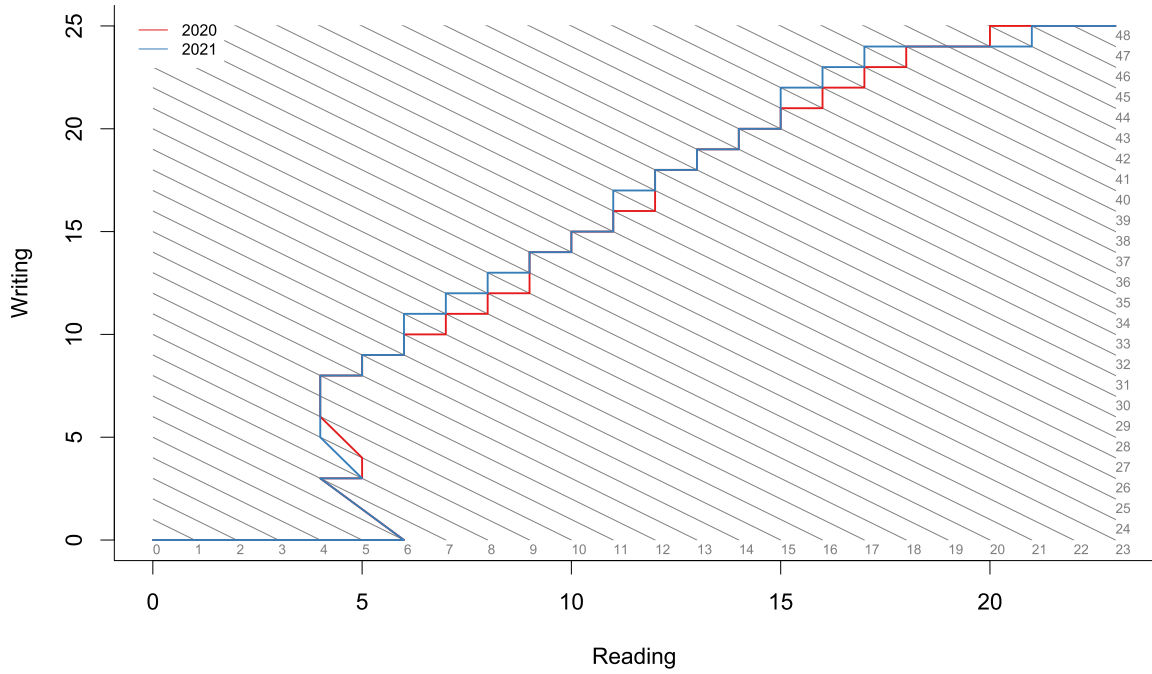
A1 English profile plots

Figure A1 Reading vs writing

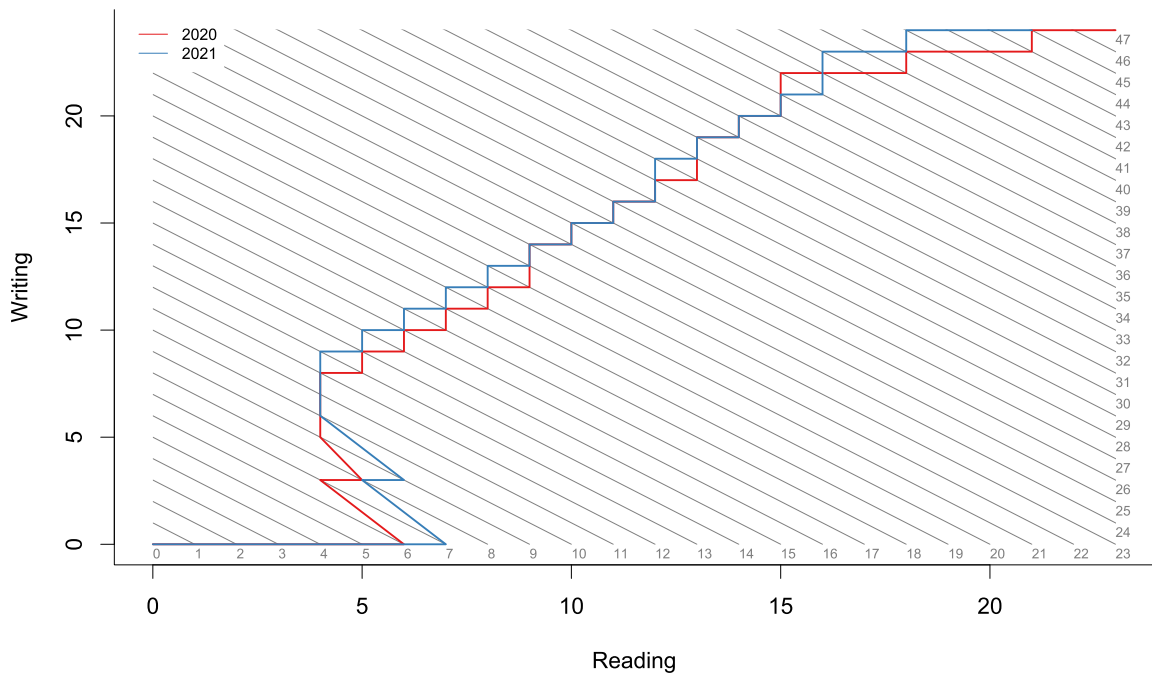
Figure A1 shows eight profile plots for booklets 1 to 8 each showing reading versus writing scores. Each plot maps the scores for reading against the scores for writing, showing trends for the 2020 and 2021 cohorts. There is no evidence of a difference in performance between reading and writing in the NRT between 2020 and 2021.



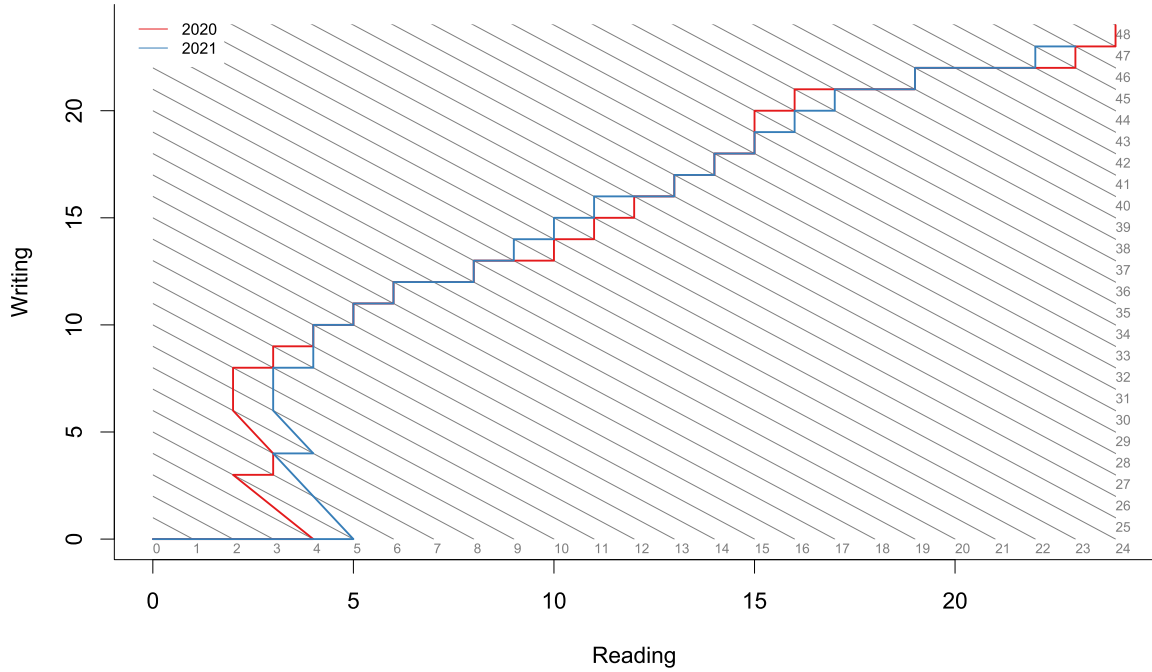
English Booklet 2



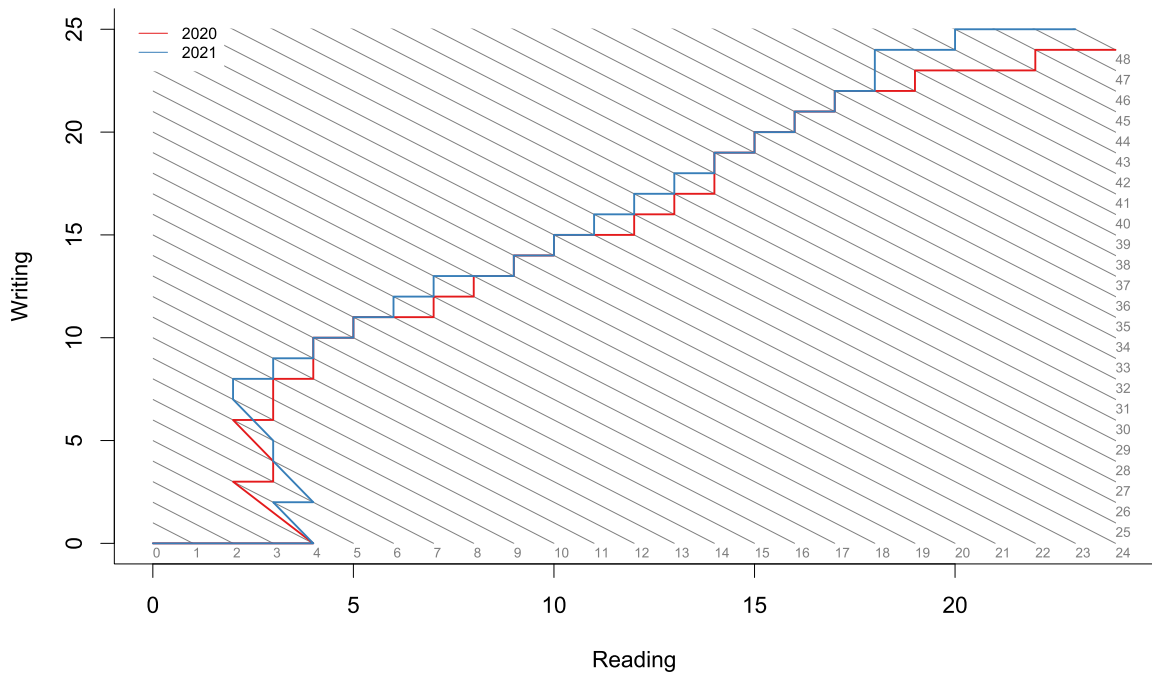
English Booklet 3



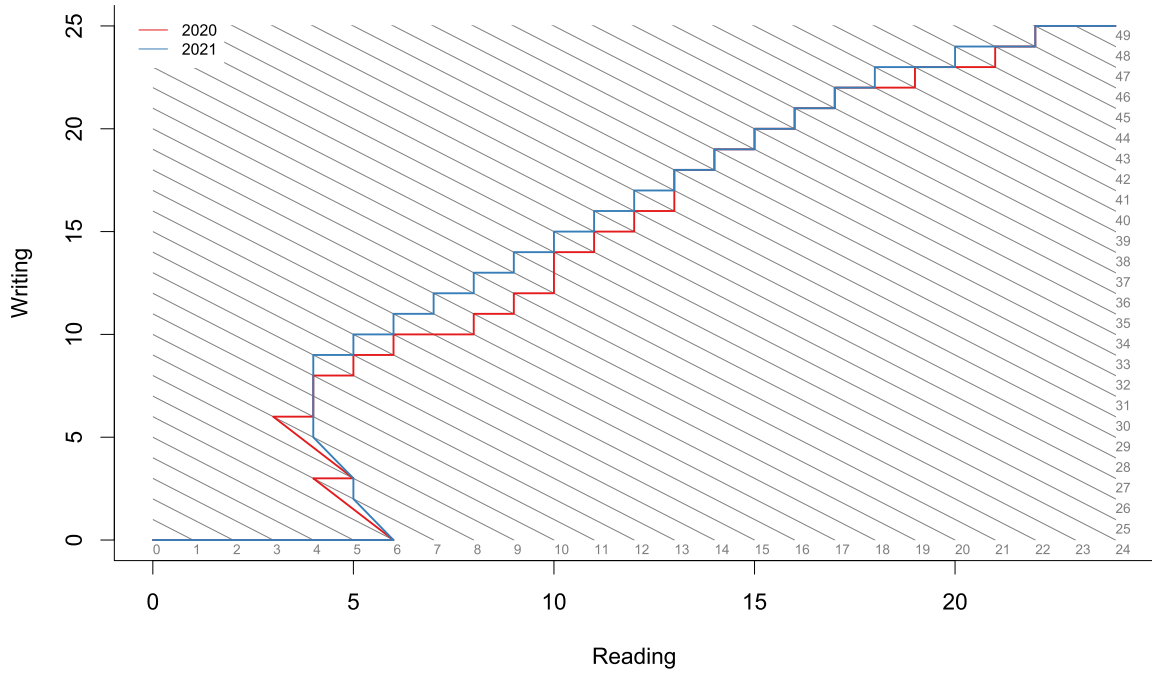
English Booklet 4



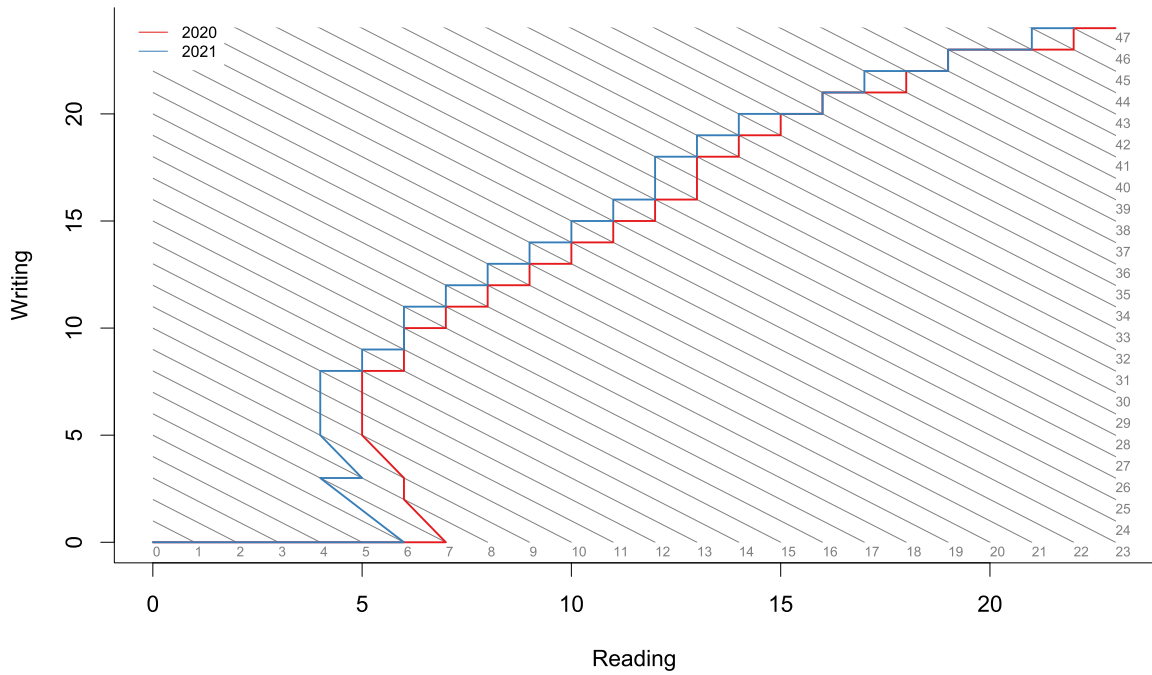
English Booklet 5



English Booklet 6



English Booklet 7



English Booklet 8

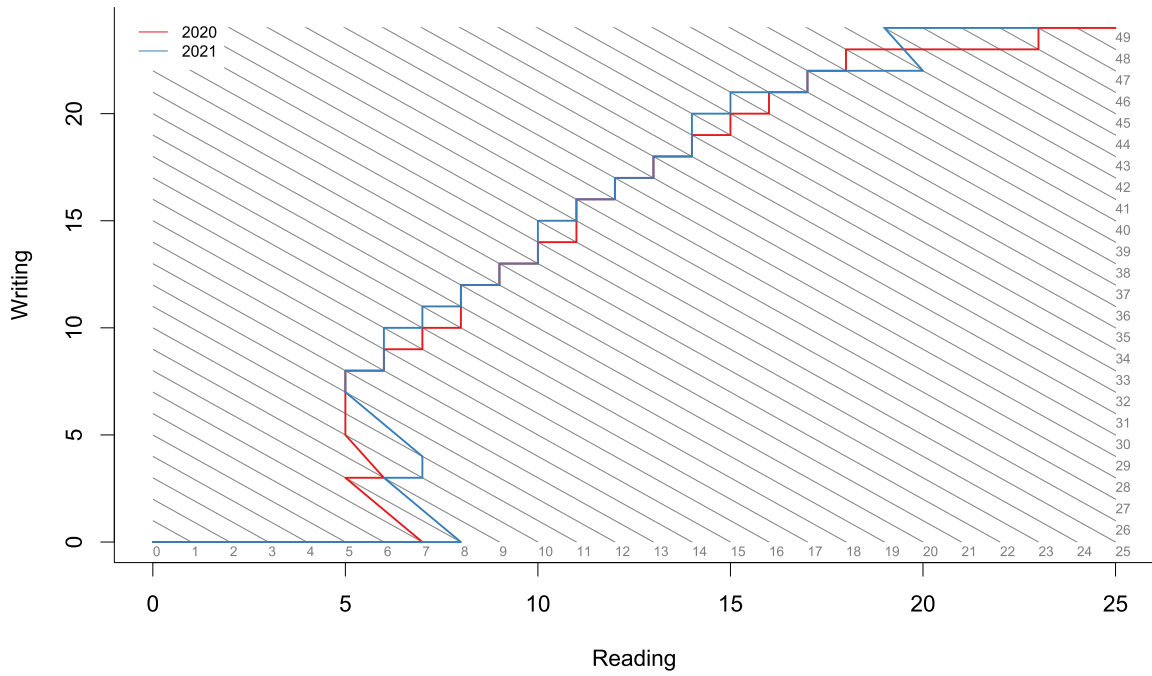
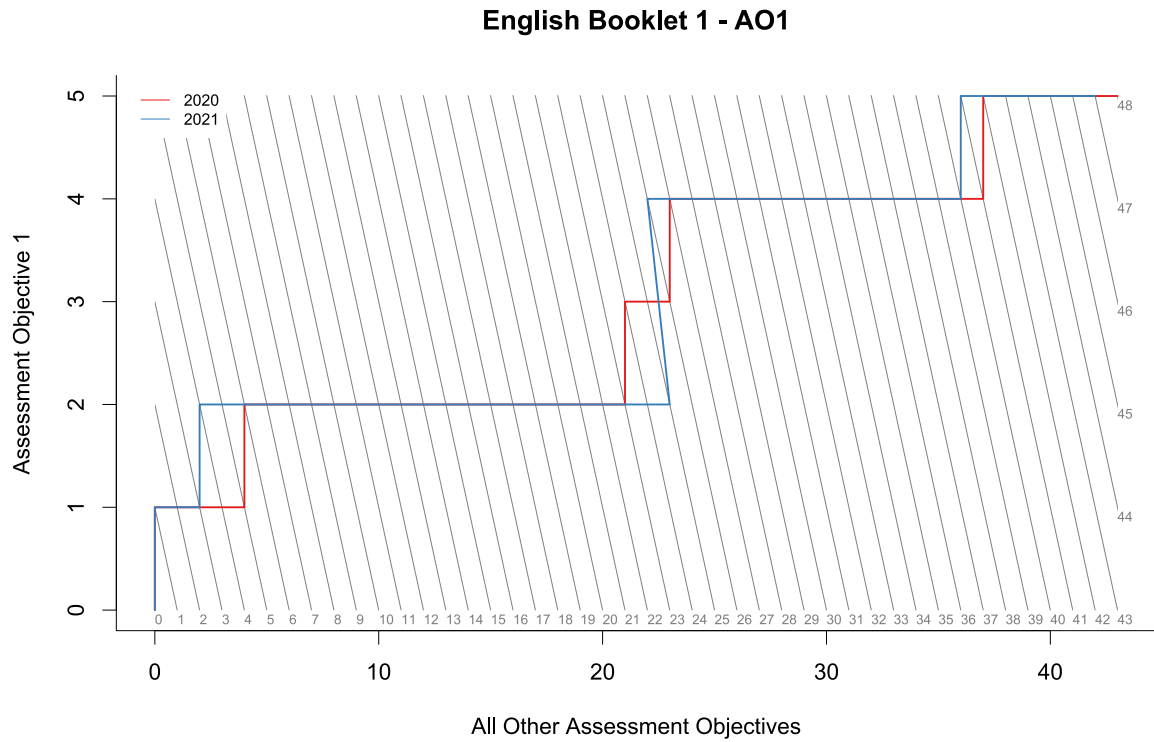
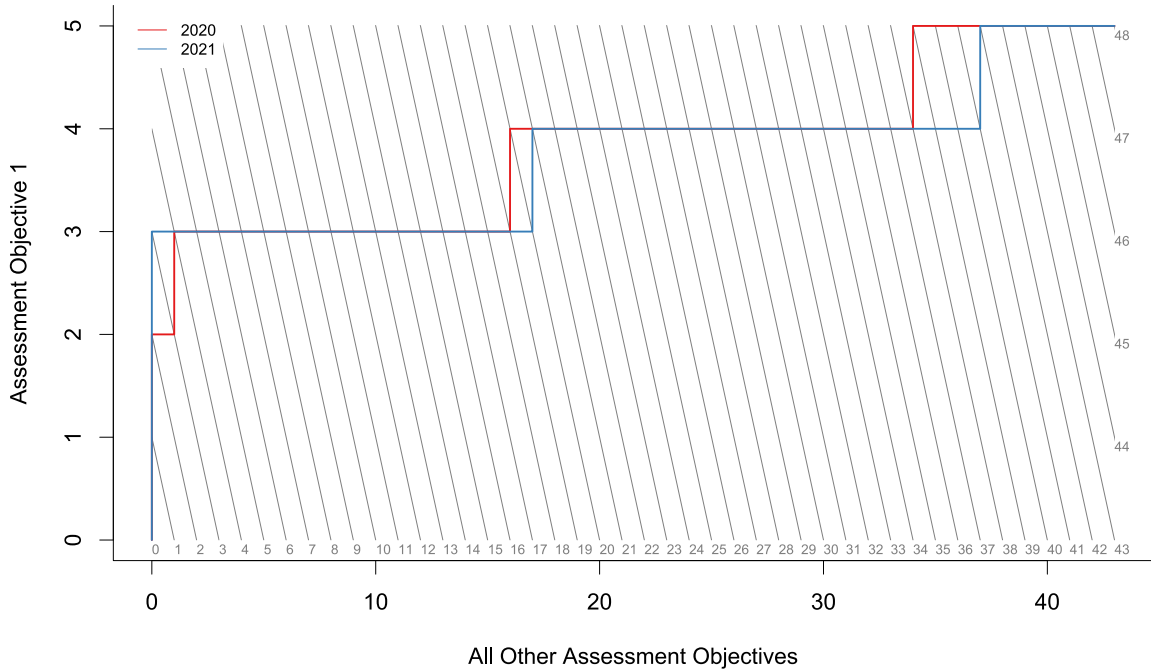


Figure A2 AO1

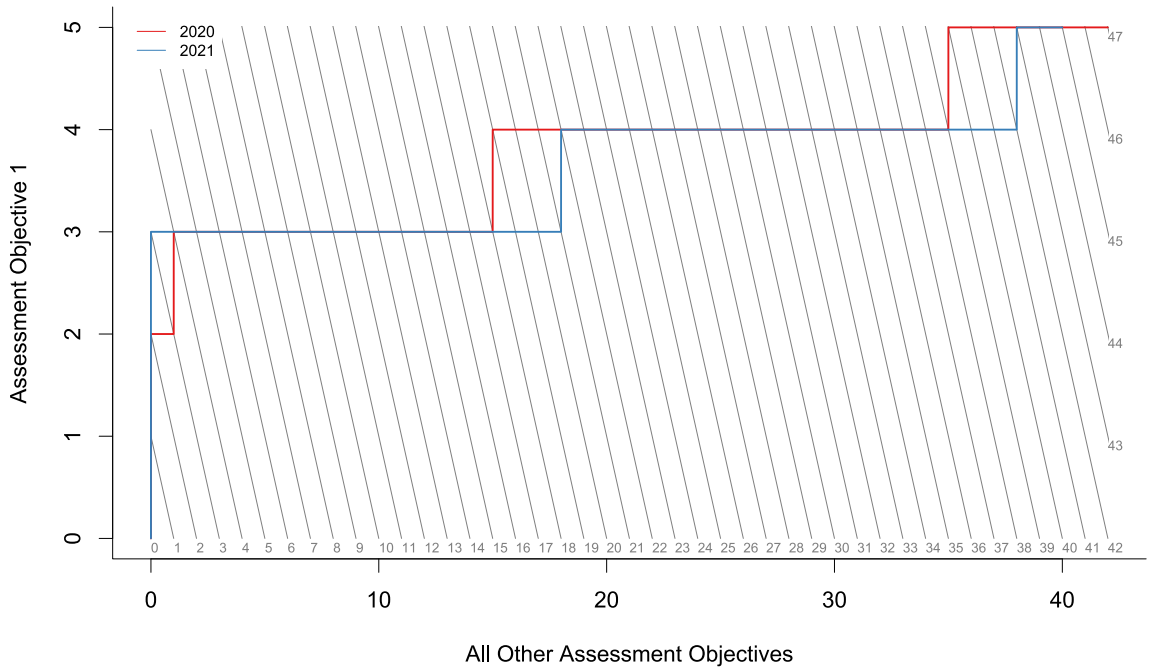
Figure A2 shows profile plots for English Booklets 1 to 8 showing AO1 scores. Each plot maps the scores for AO1 against the other assessment objectives, showing trends for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance on AO1 in the NRT between 2020 and 2021.



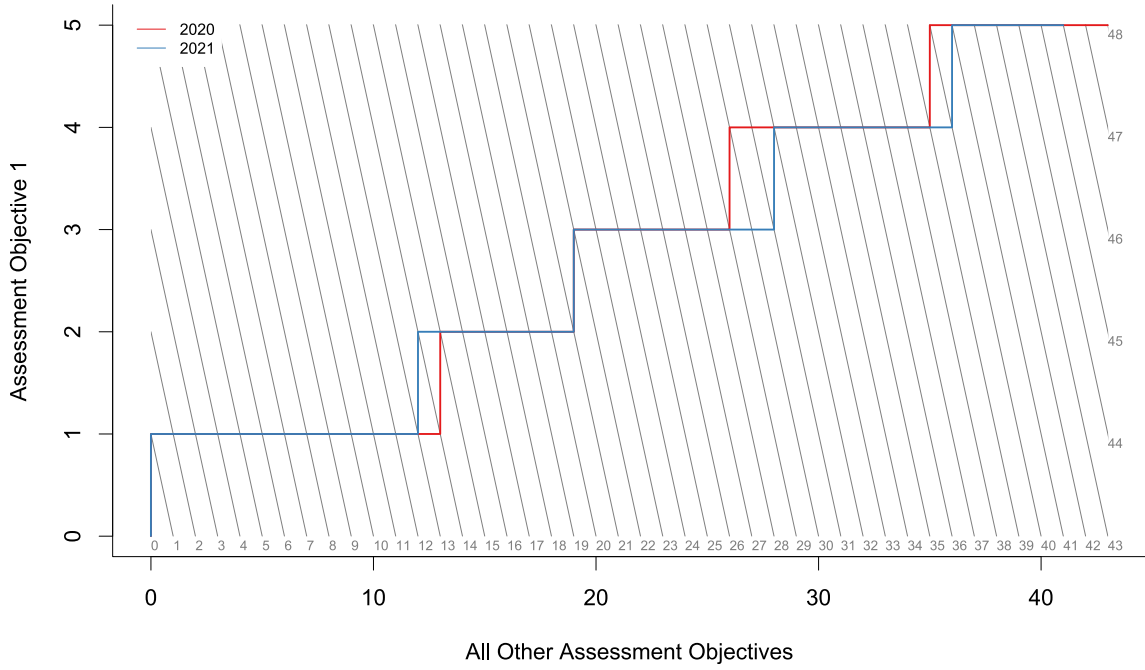
English Booklet 2 - AO1



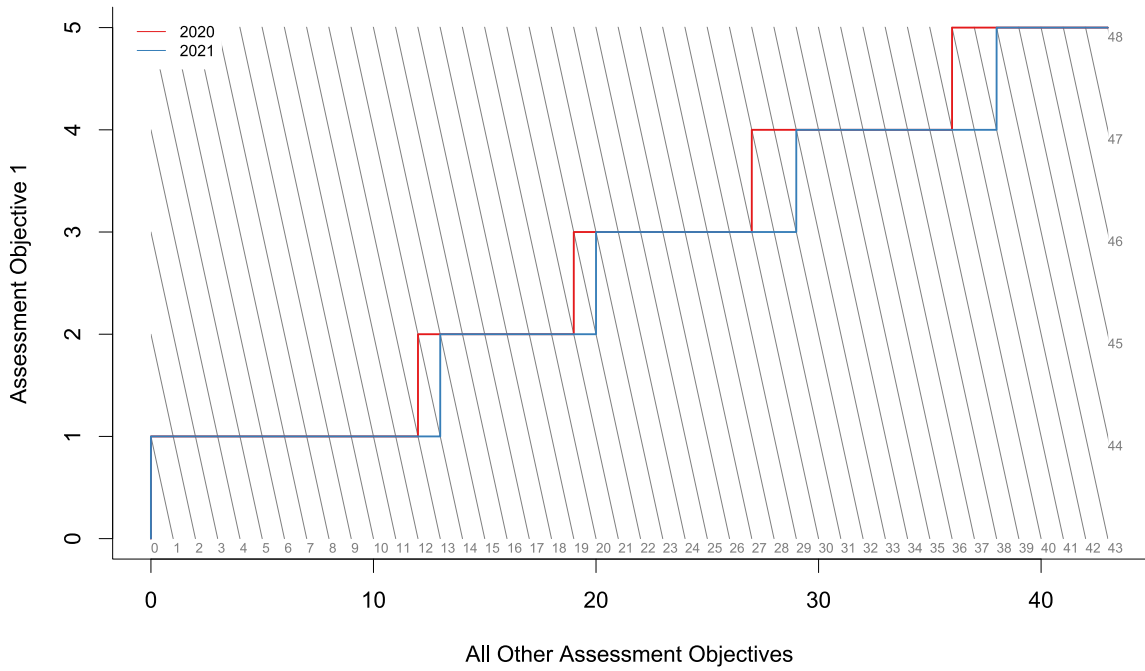
English Booklet 3 - AO1



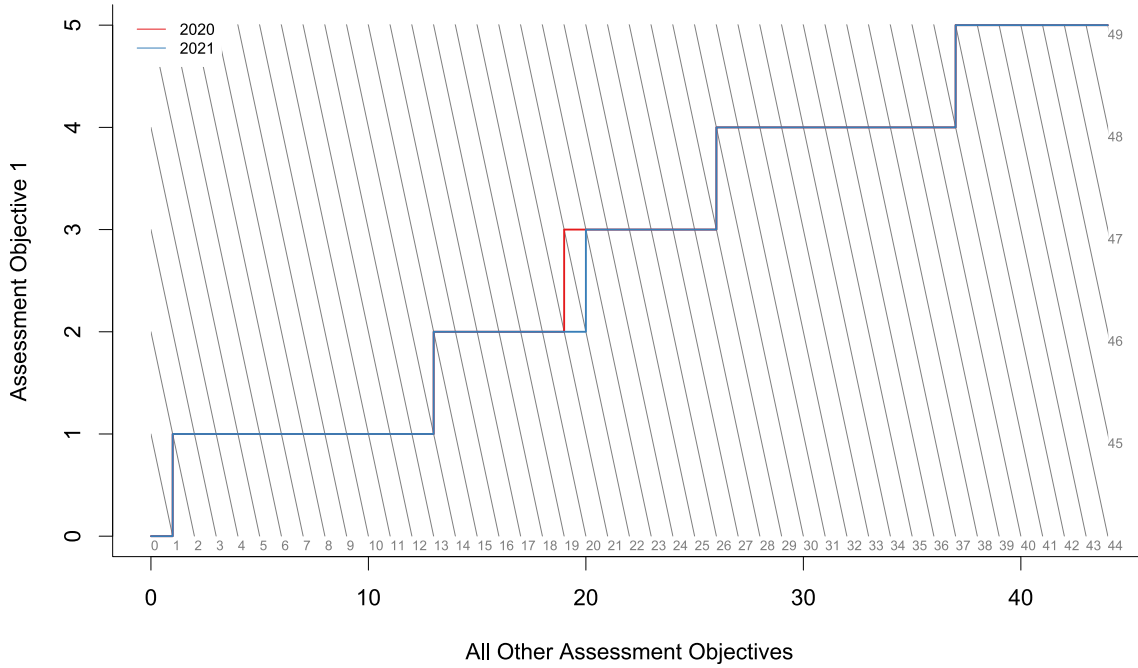
English Booklet 4 - AO1



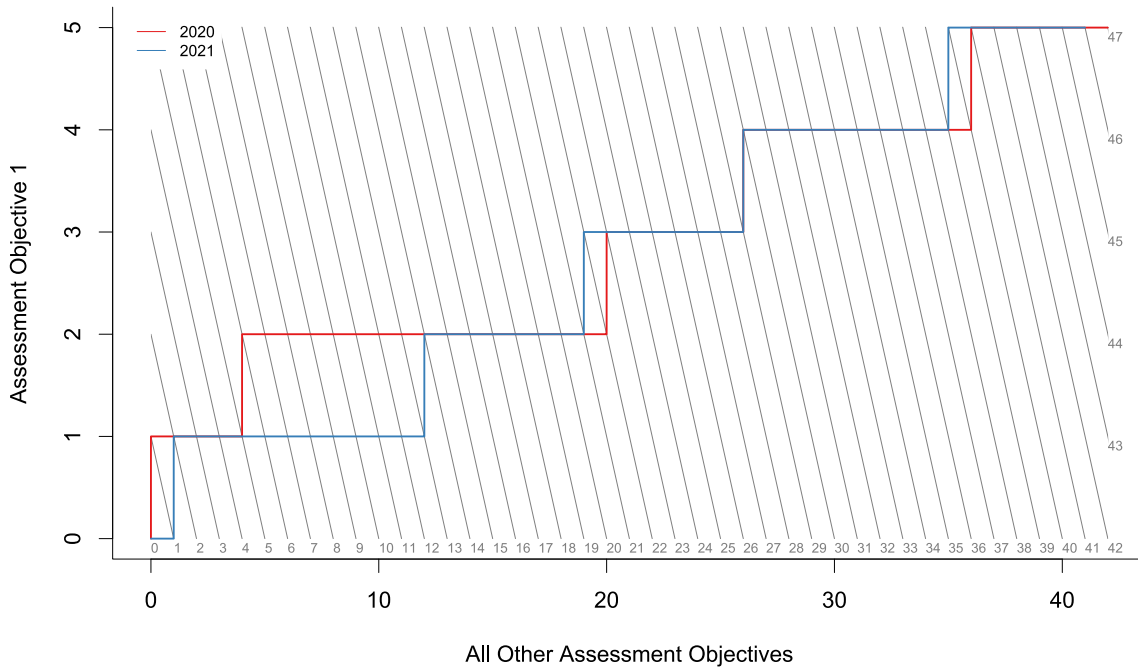
English Booklet 5 - AO1



English Booklet 6 - AO1



English Booklet 7 - AO1



English Booklet 8 - AO1

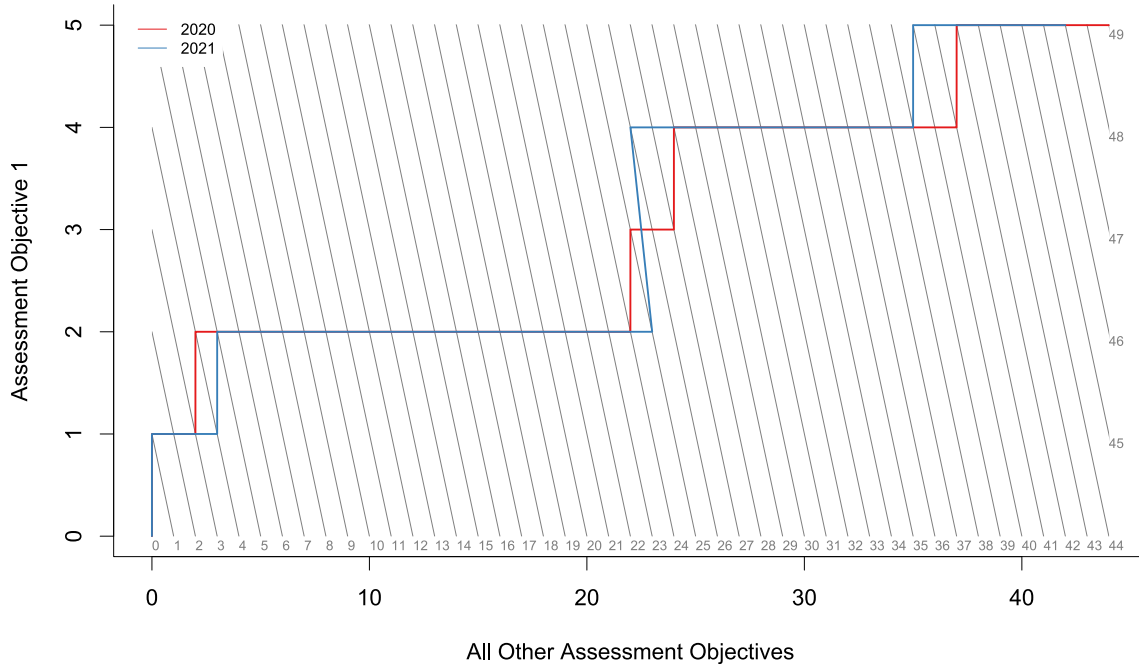
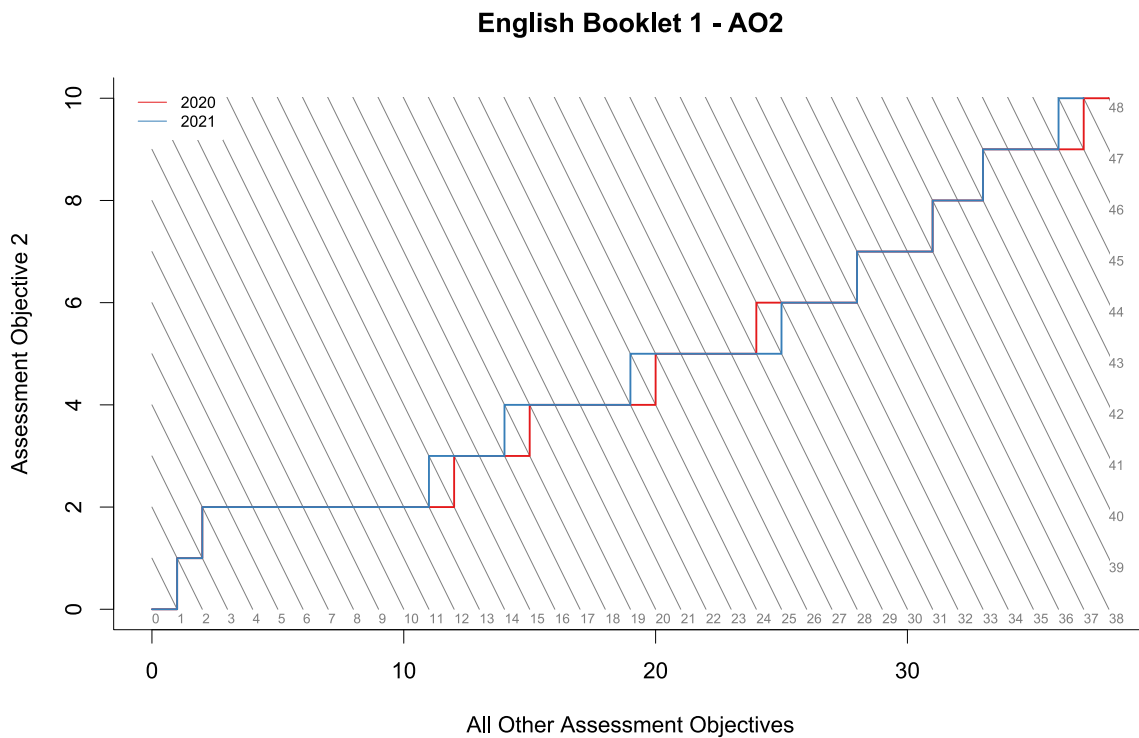
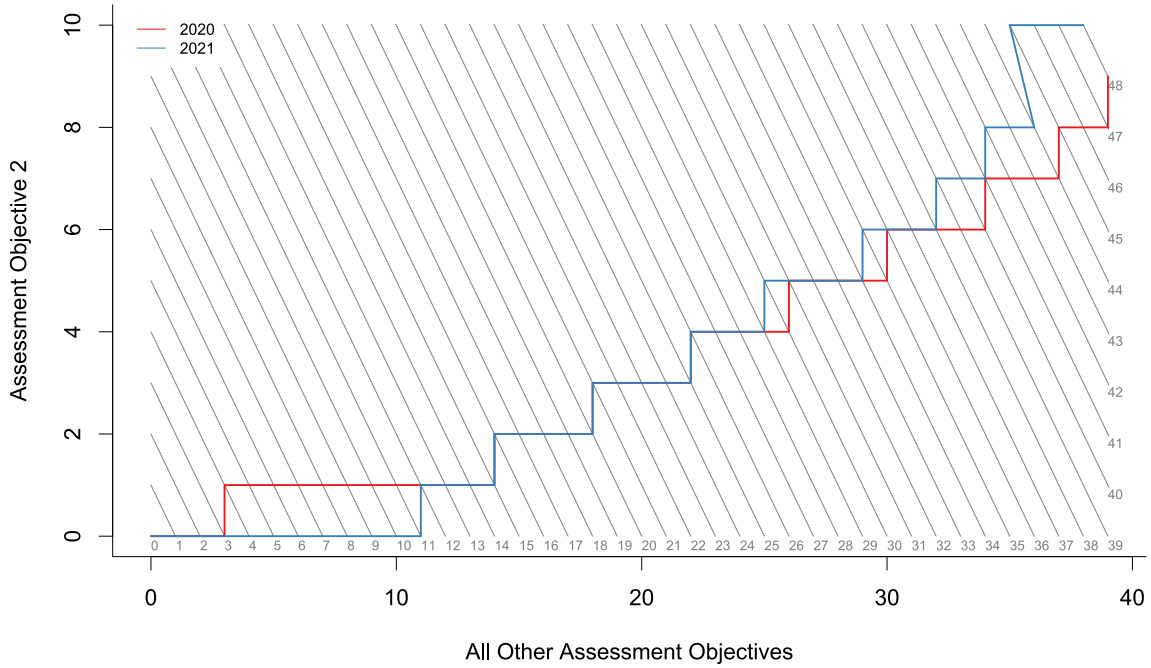


Figure A3 AO2

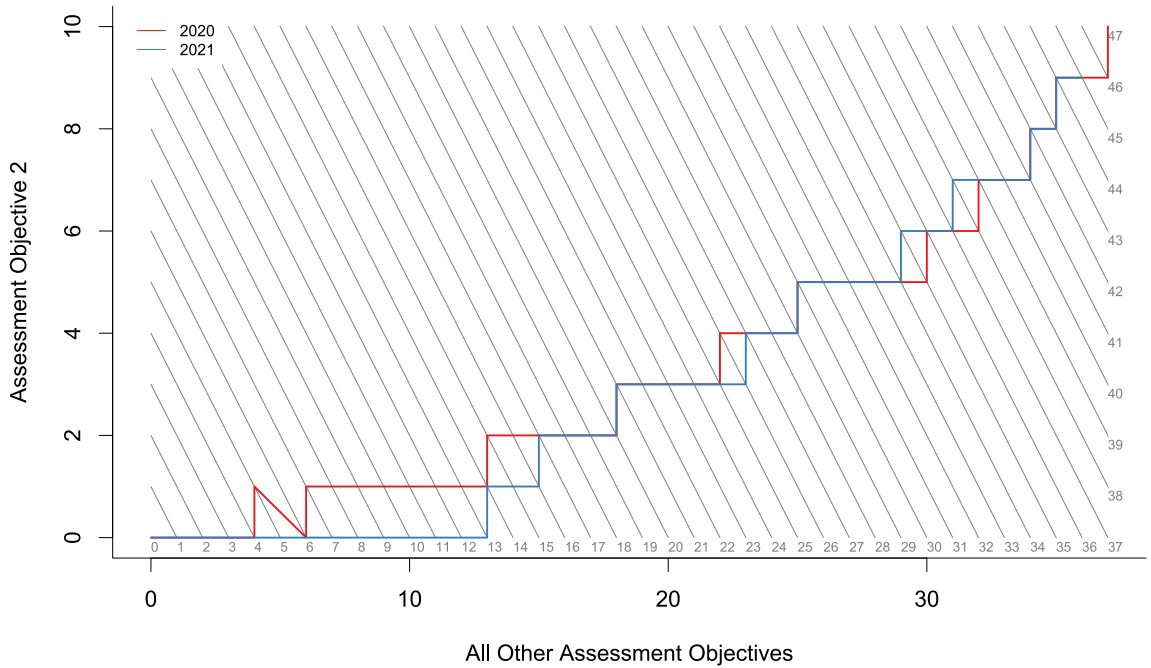
Figure A3 shows profile plots for English Booklets 1 to 8 showing AO2 scores. Each plot maps the scores for AO2 against the other assessment objectives, showing trends for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance on AO2 in the NRT between 2020 and 2021.



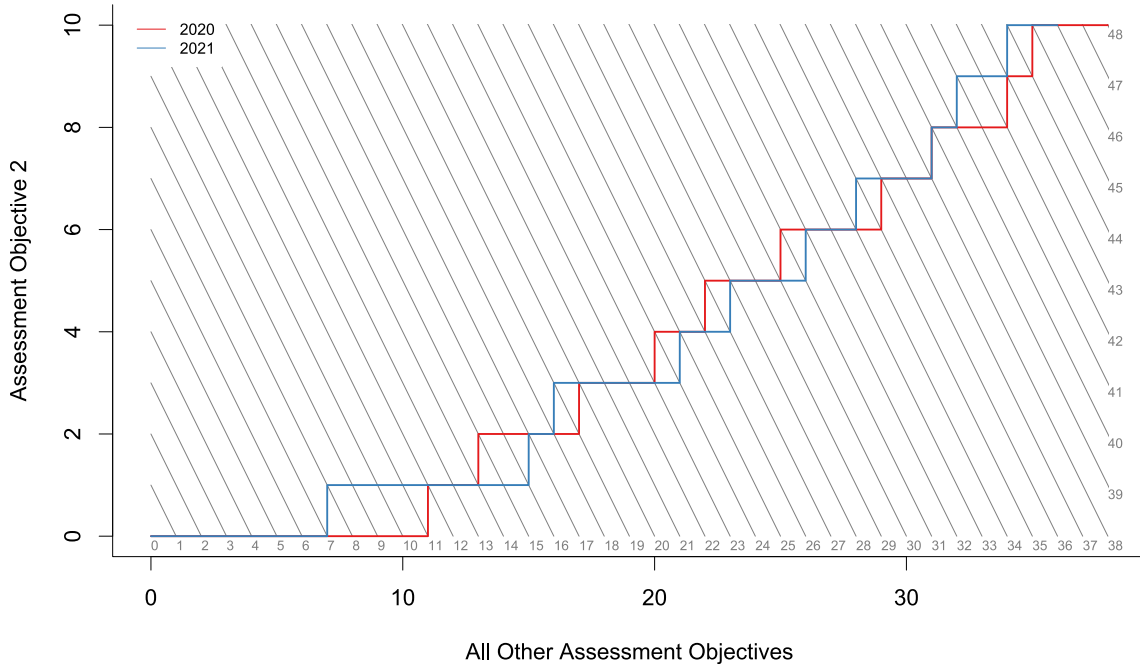
English Booklet 2 - AO2



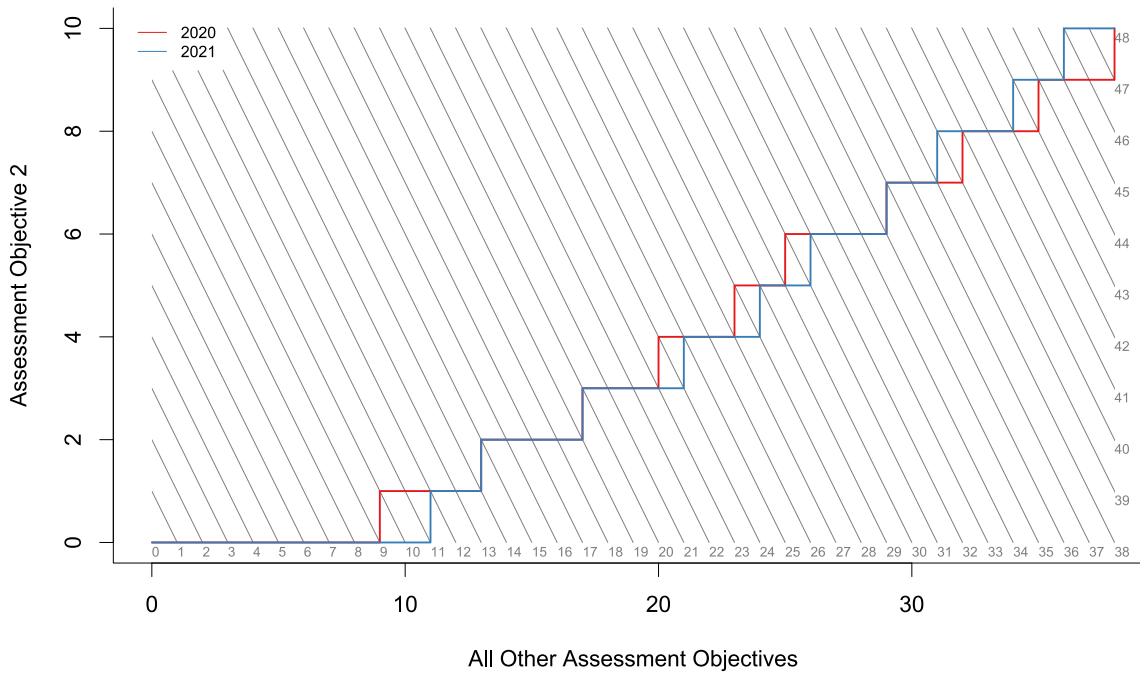
English Booklet 3 - AO2



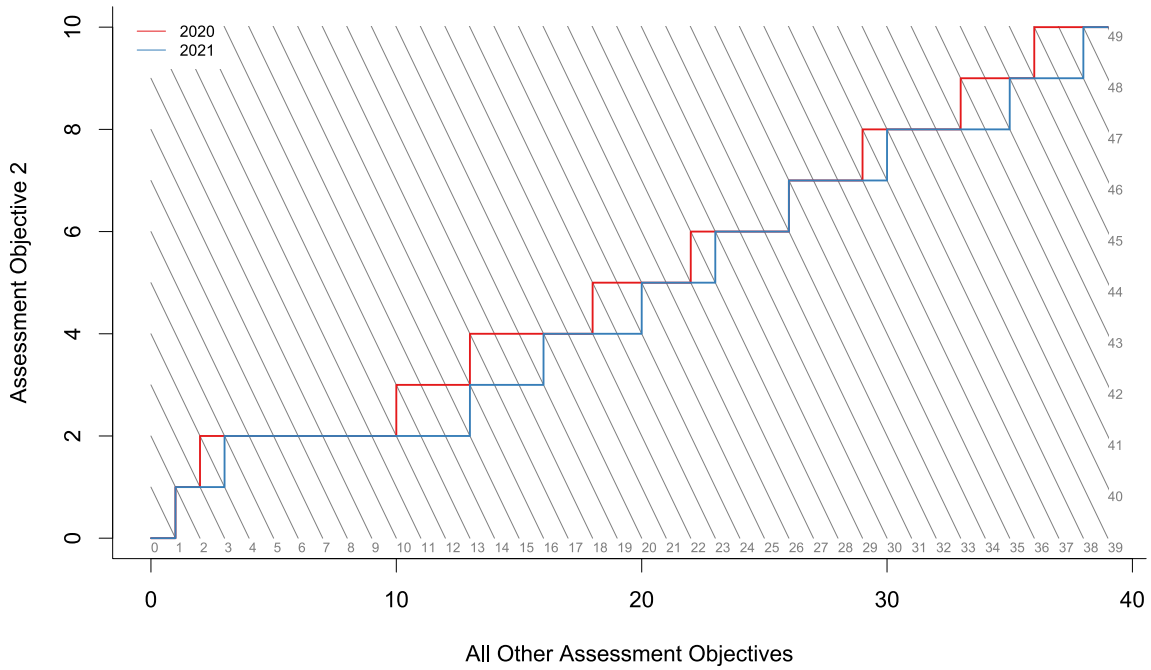
English Booklet 4 - AO2



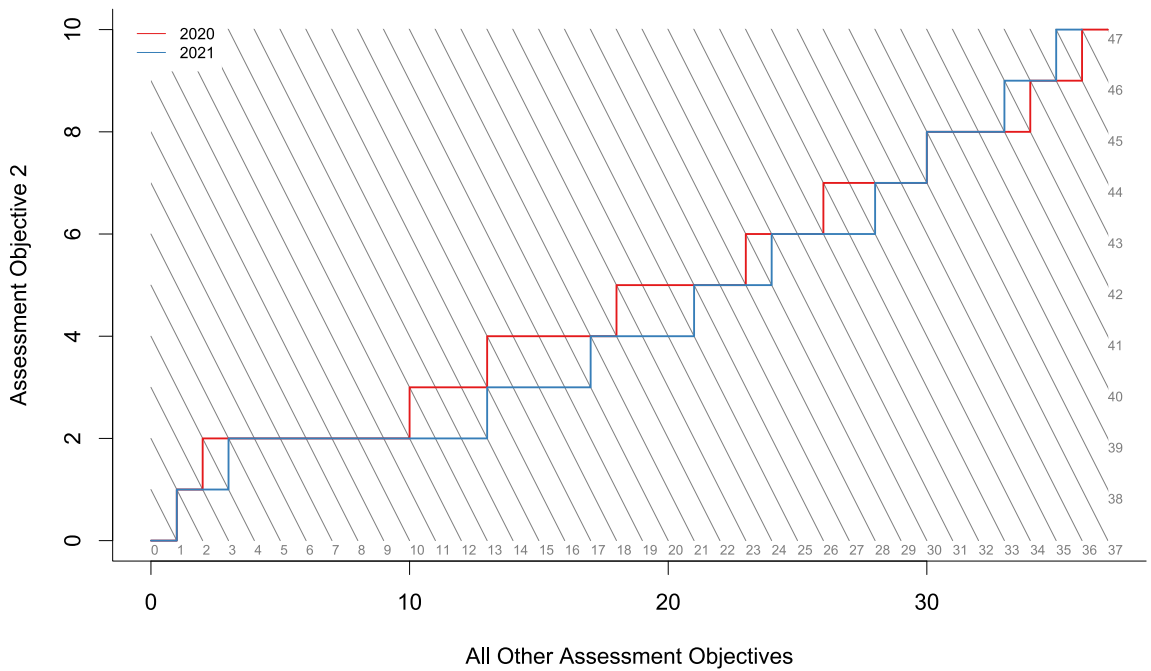
English Booklet 5 - AO2



English Booklet 6 - AO2



English Booklet 7 - AO2



English Booklet 8 - AO2

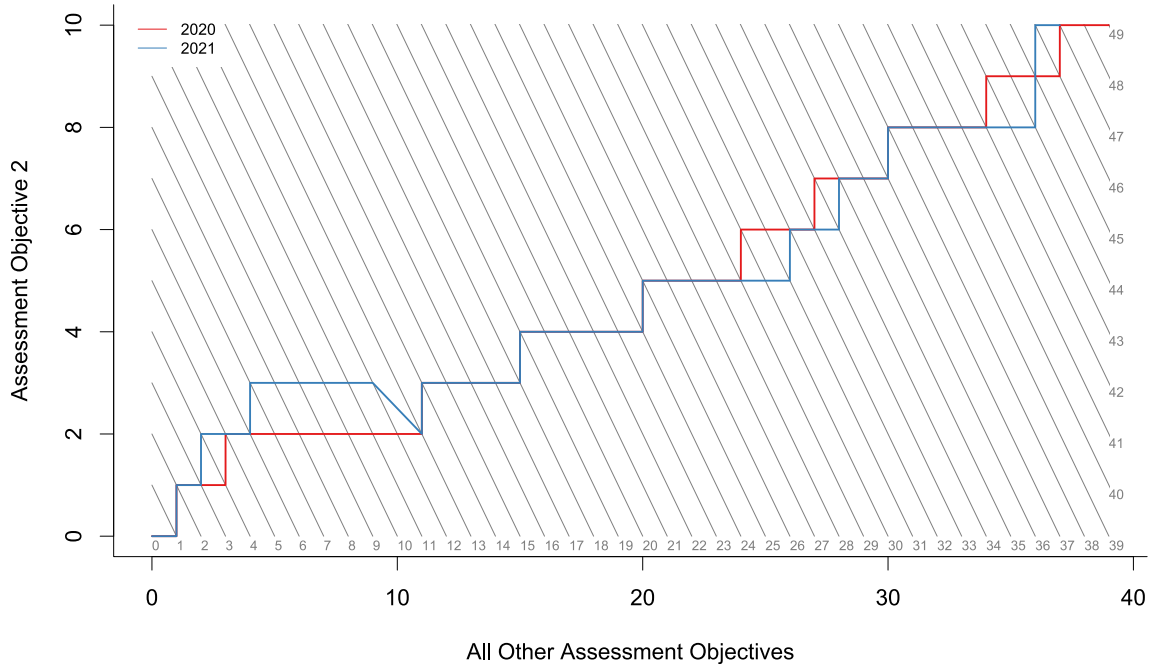
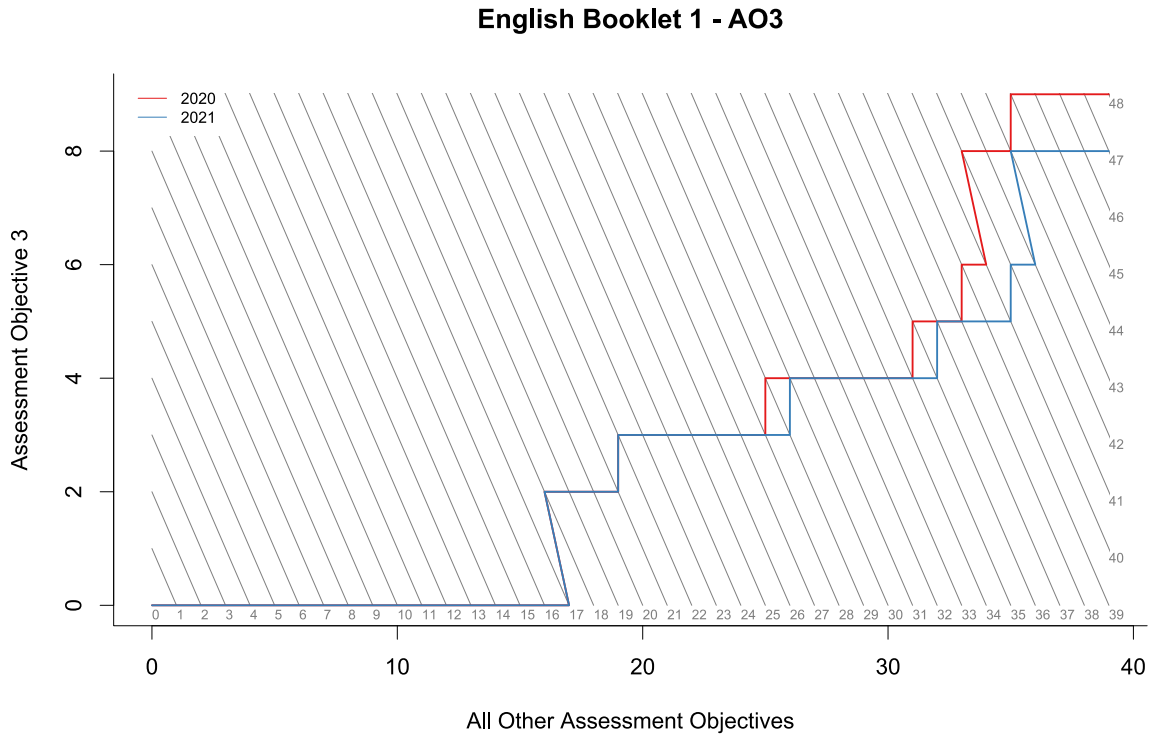
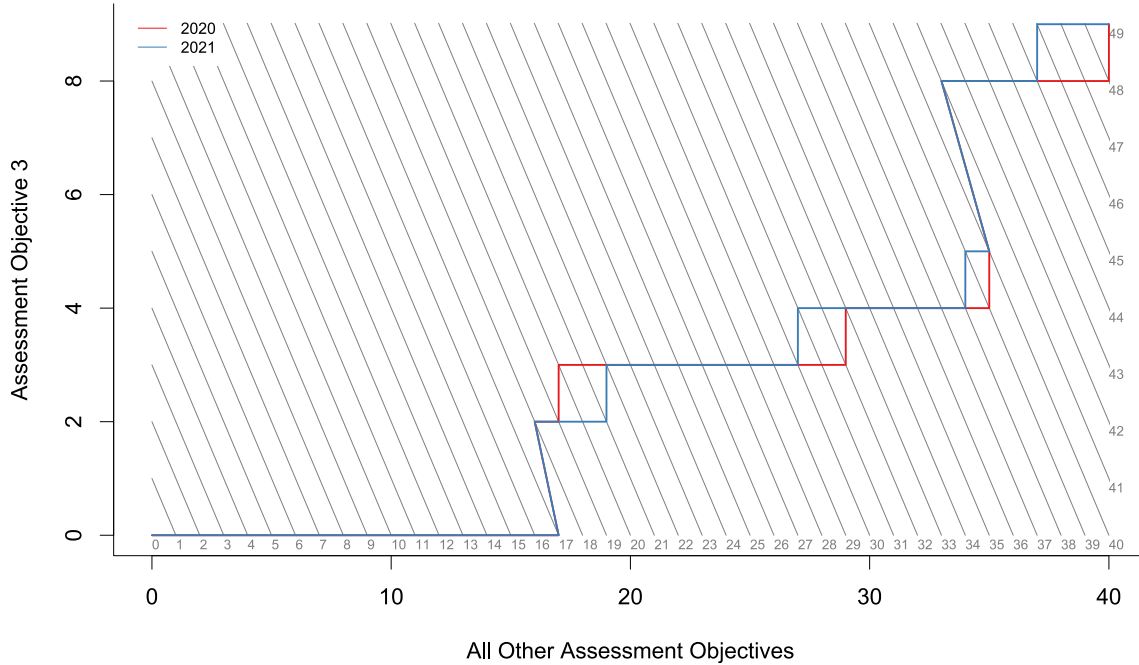


Figure A4 AO3 (booklets 1,6,7 and 8 contain AO3 items)

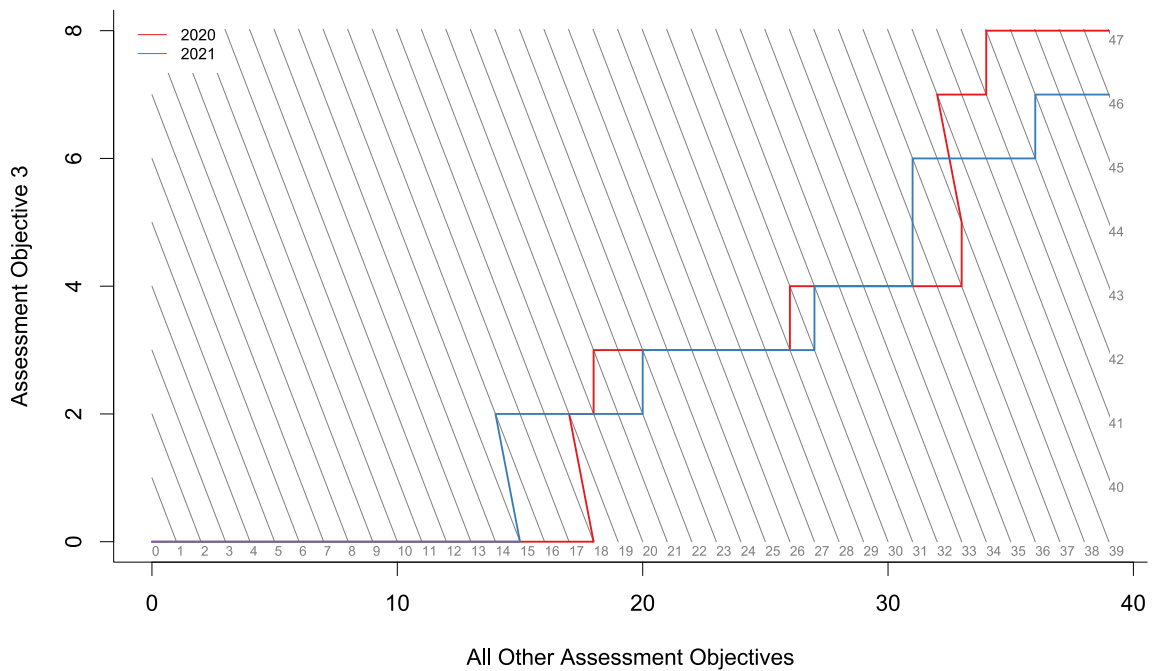
Figure A4 shows profile plots for English Booklets 1, 6, 7 and 8 showing AO3 scores. Each plot maps the scores for AO3 against the other assessment objectives, showing trends for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance on AO3 in the NRT between 2020 and 2021.



English Booklet 6 - AO3



English Booklet 7 - AO3



English Booklet 8 - AO3

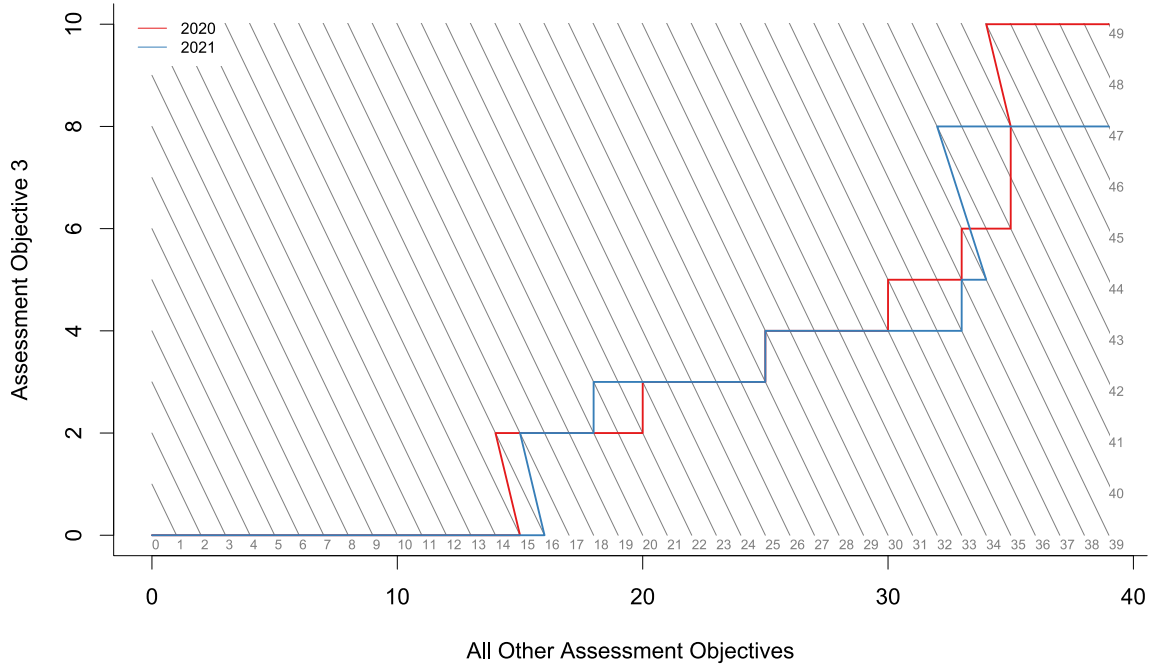
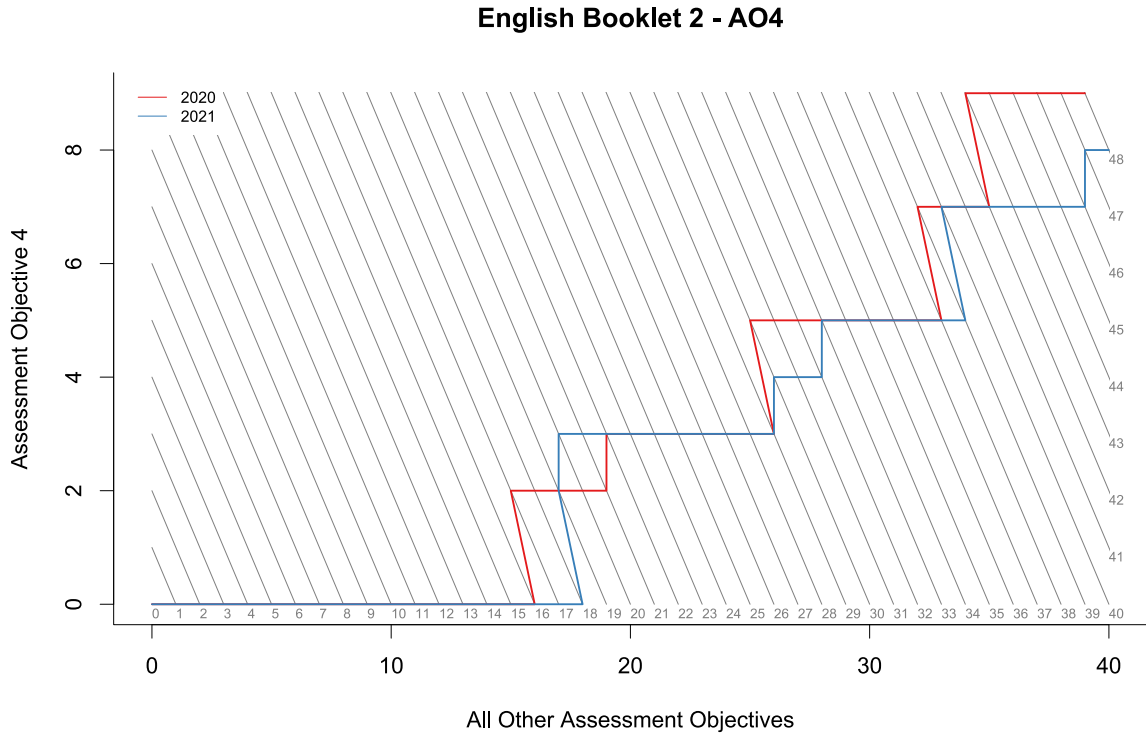
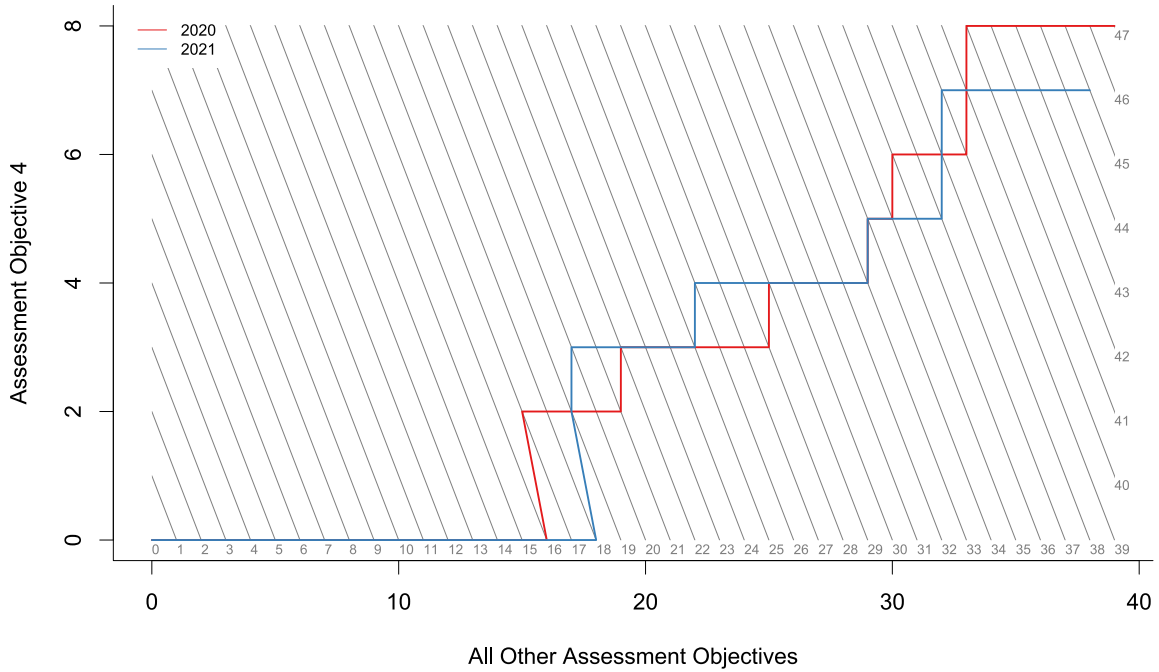


Figure A5 AO4 (booklets 2,3,4 and 5 contain AO4 items)

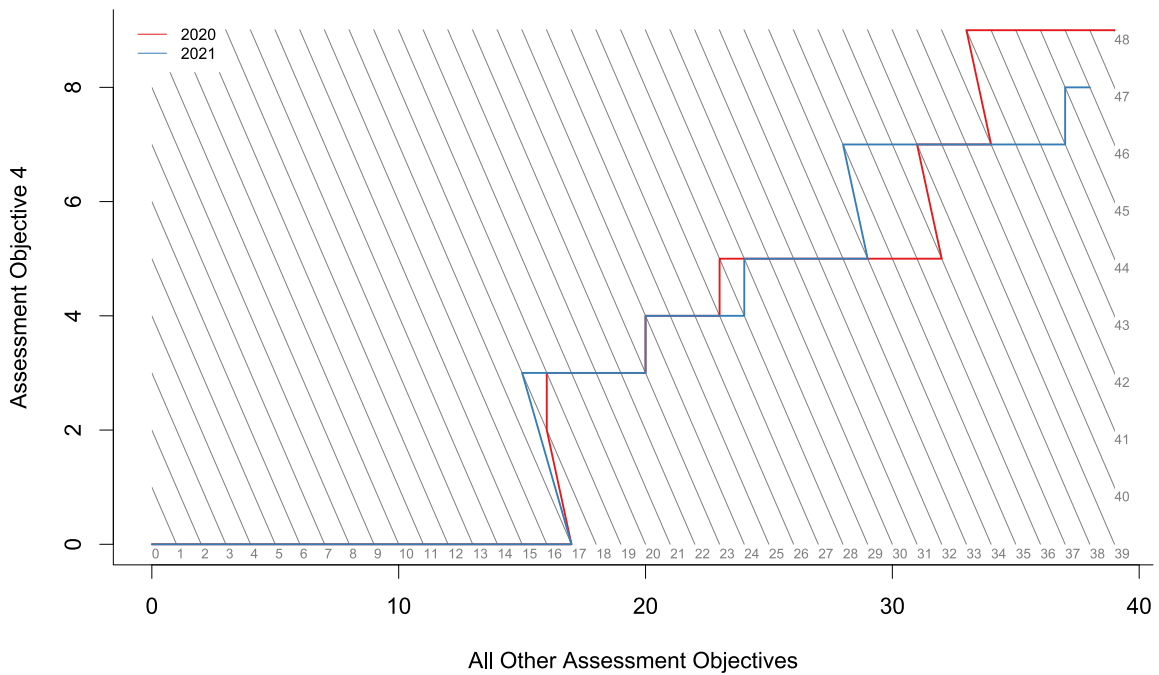
Figure A5 shows profile plot for English Booklets 2, 3, 4 and 5 showing AO4 scores. Each plot maps the scores for AO4 against the other assessment objectives, showing trends for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance on AO4 in the NRT between 2020 and 2021.



English Booklet 3 - AO4



English Booklet 4 - AO4



English Booklet 5 - AO4

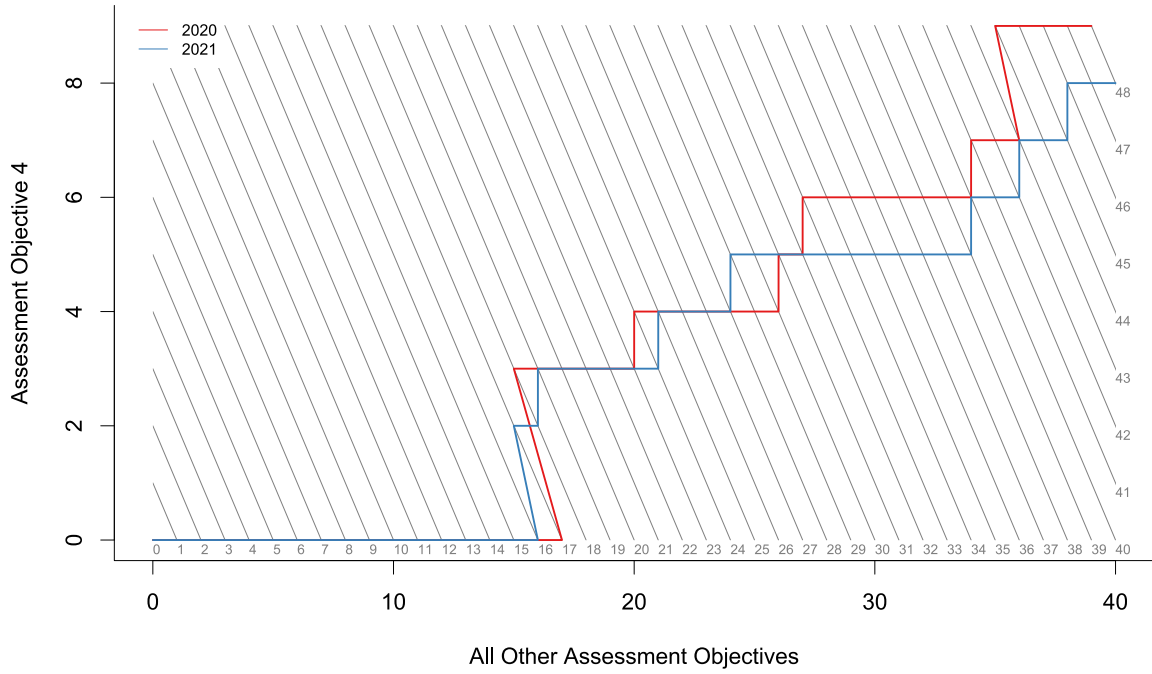
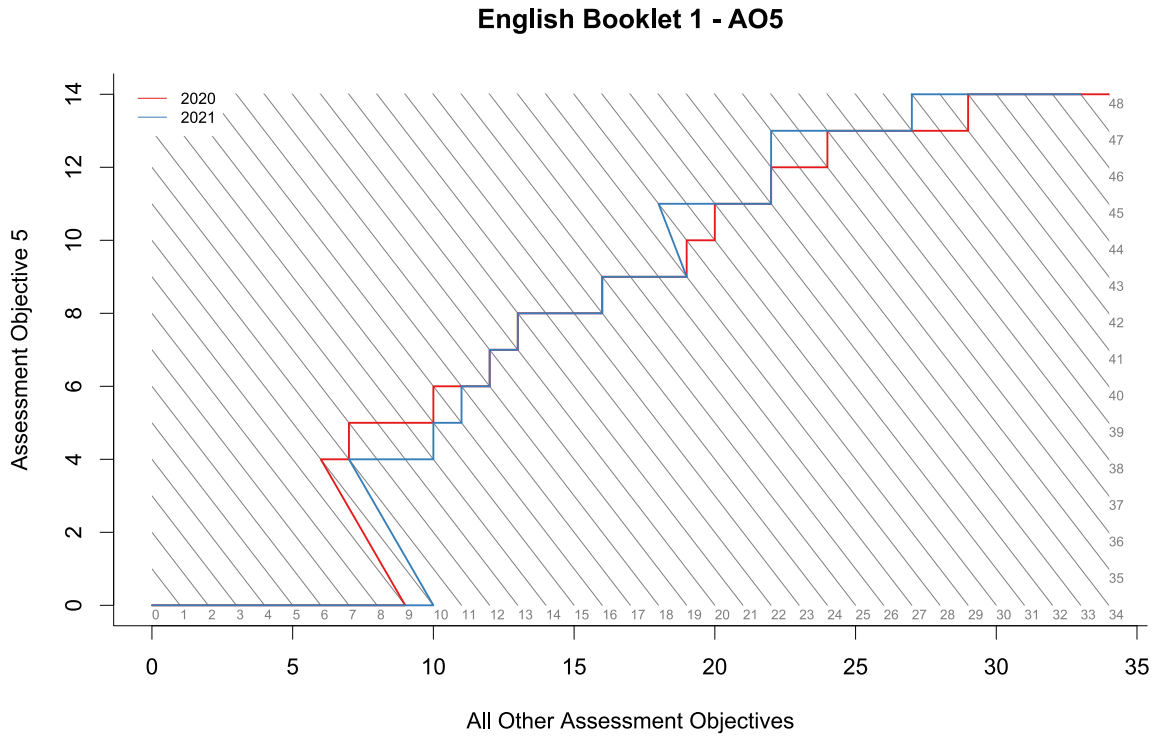
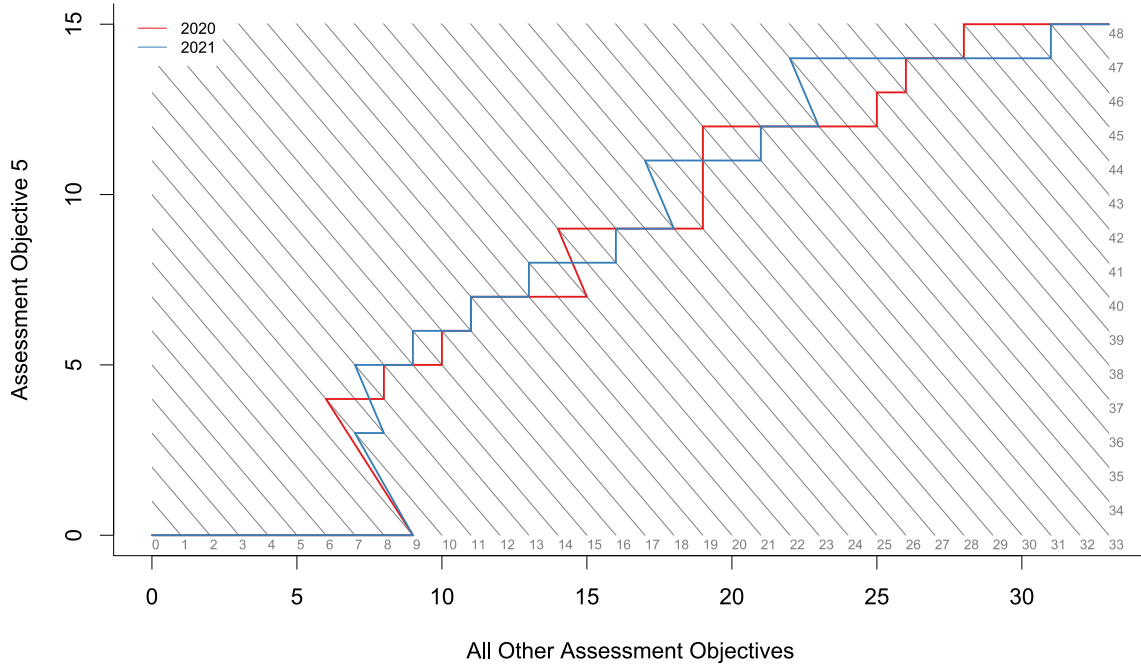


Figure A6 AO5

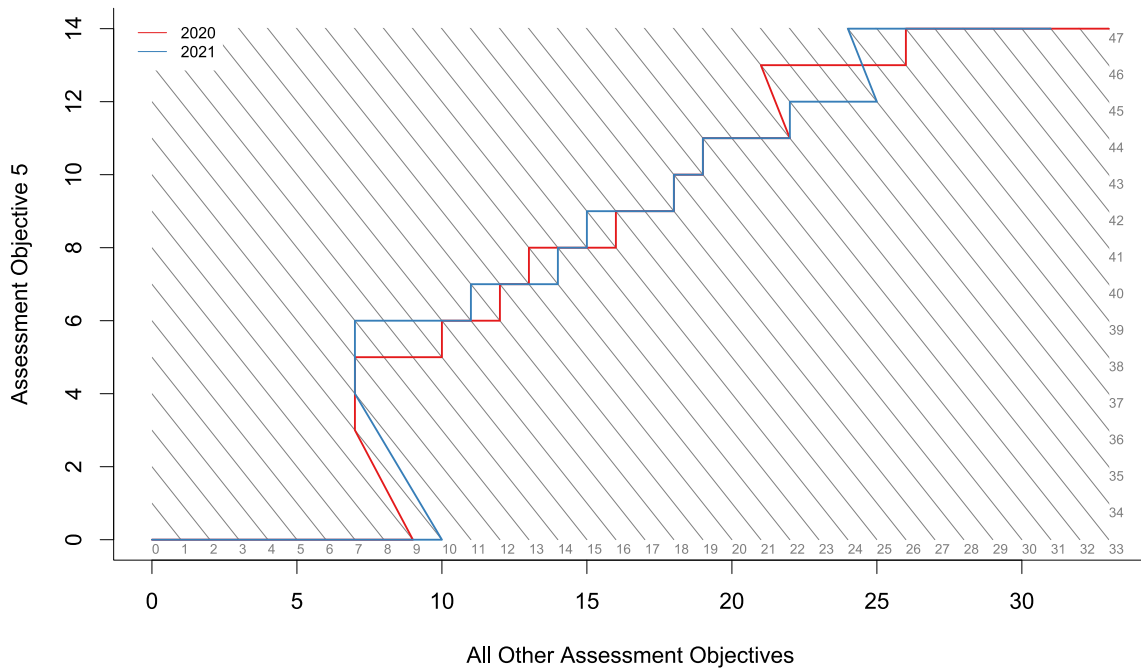
Figure A6 shows profile plots for English Booklets 1 to 8 showing AO5 scores. Each plot maps the scores for AO5 against the other assessment objectives, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance on AO5 in the NRT between 2020 and 2021.



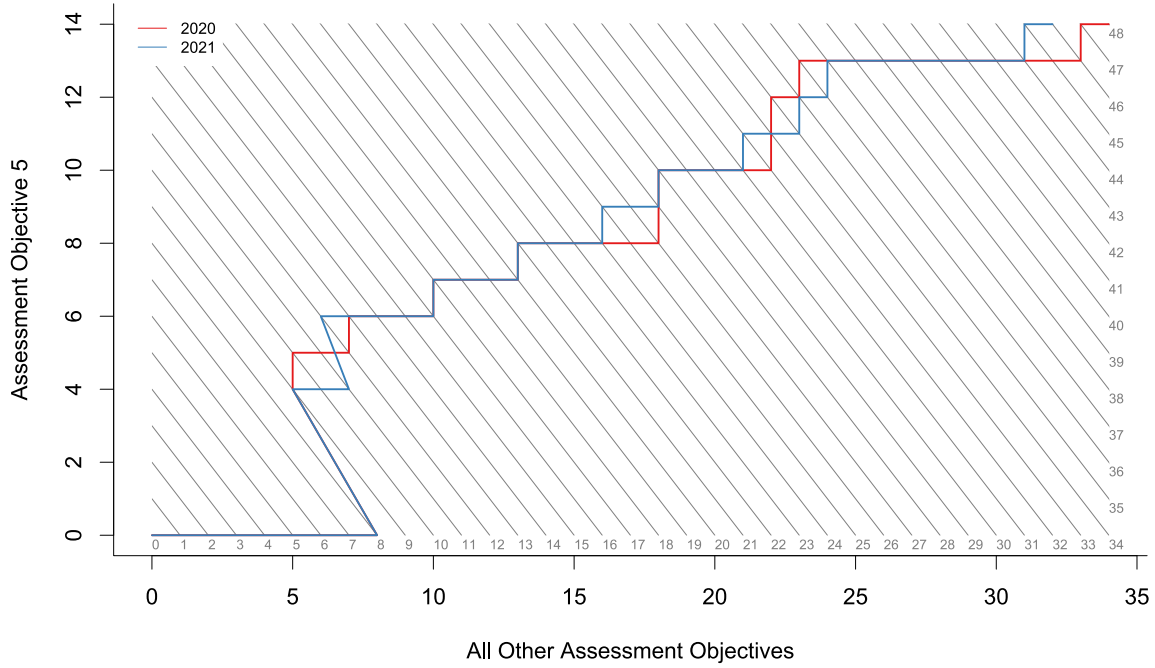
English Booklet 2 - AO5



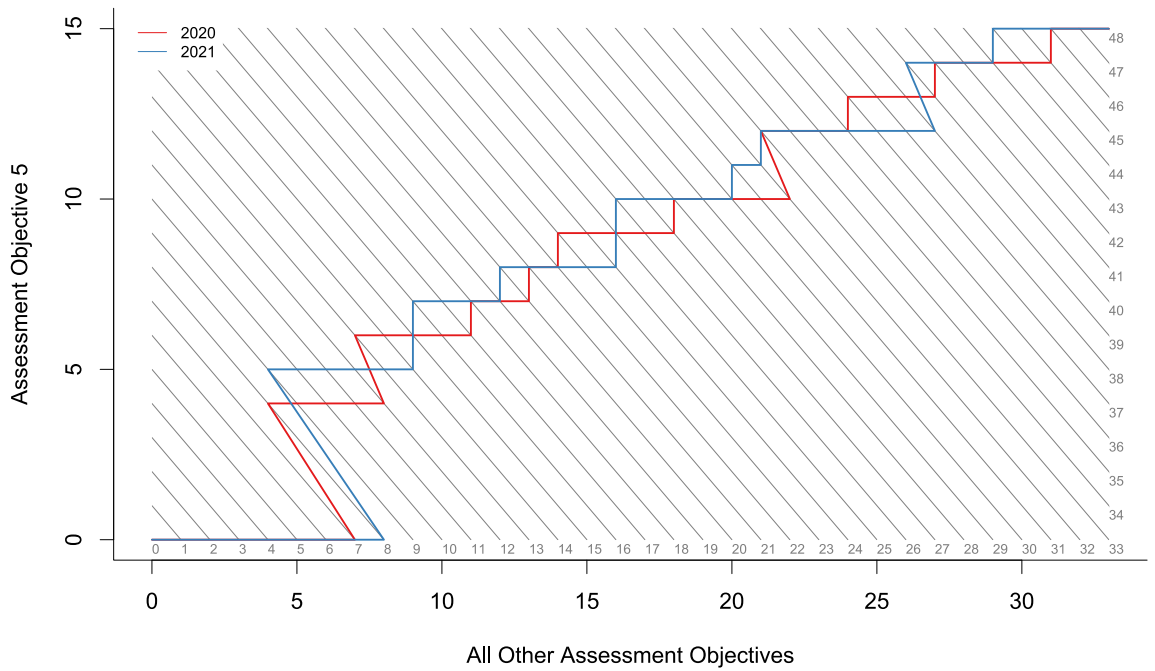
English Booklet 3 - AO5



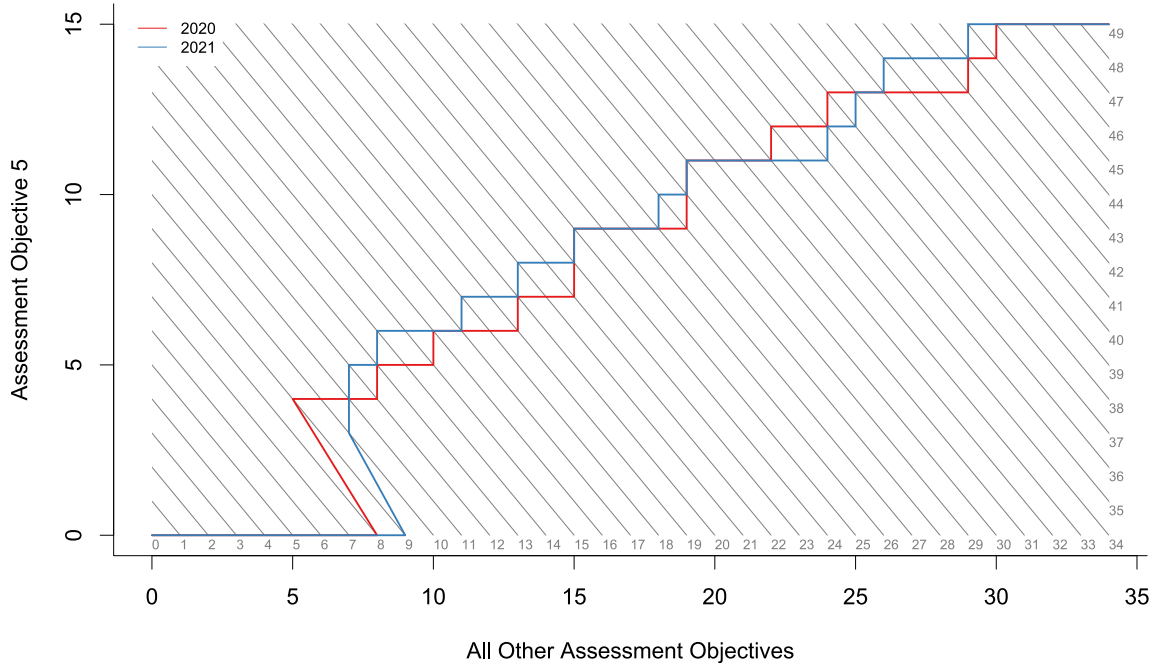
English Booklet 4 - AO5



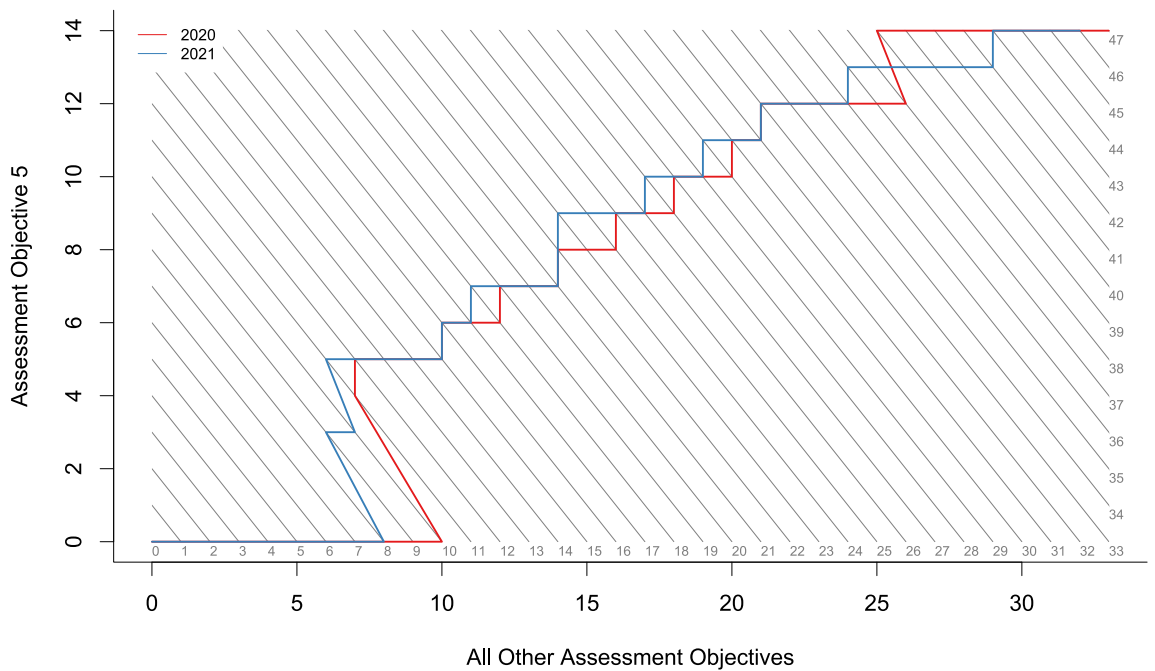
English Booklet 5 - AO5



English Booklet 6 - AO5



English Booklet 7 - AO5



English Booklet 8 - AO5

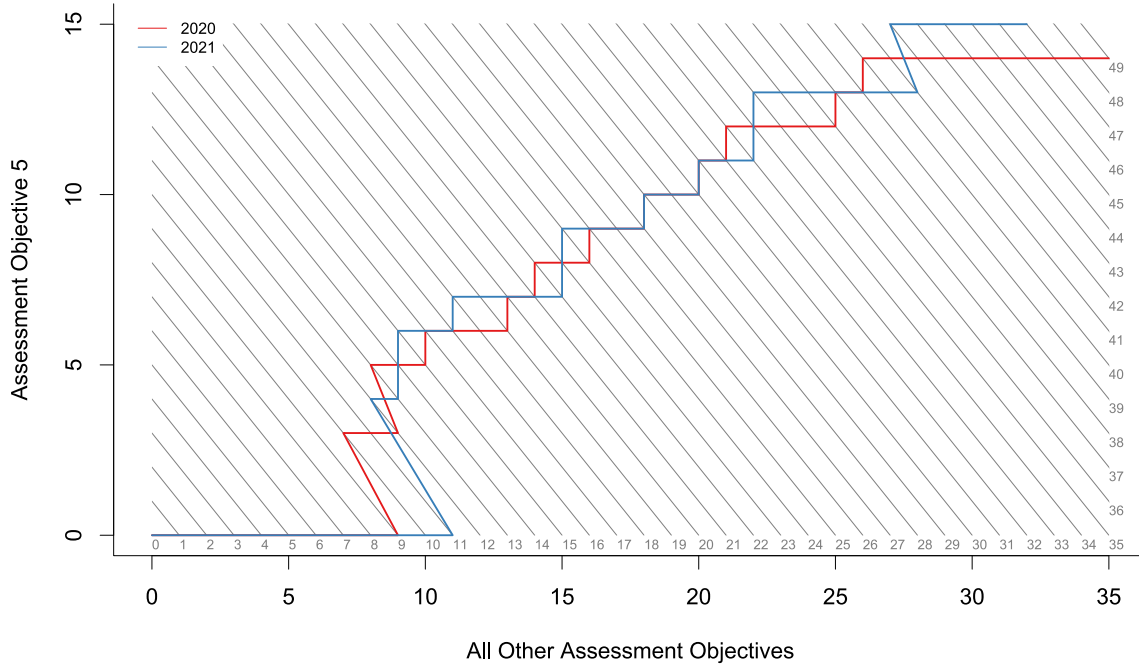
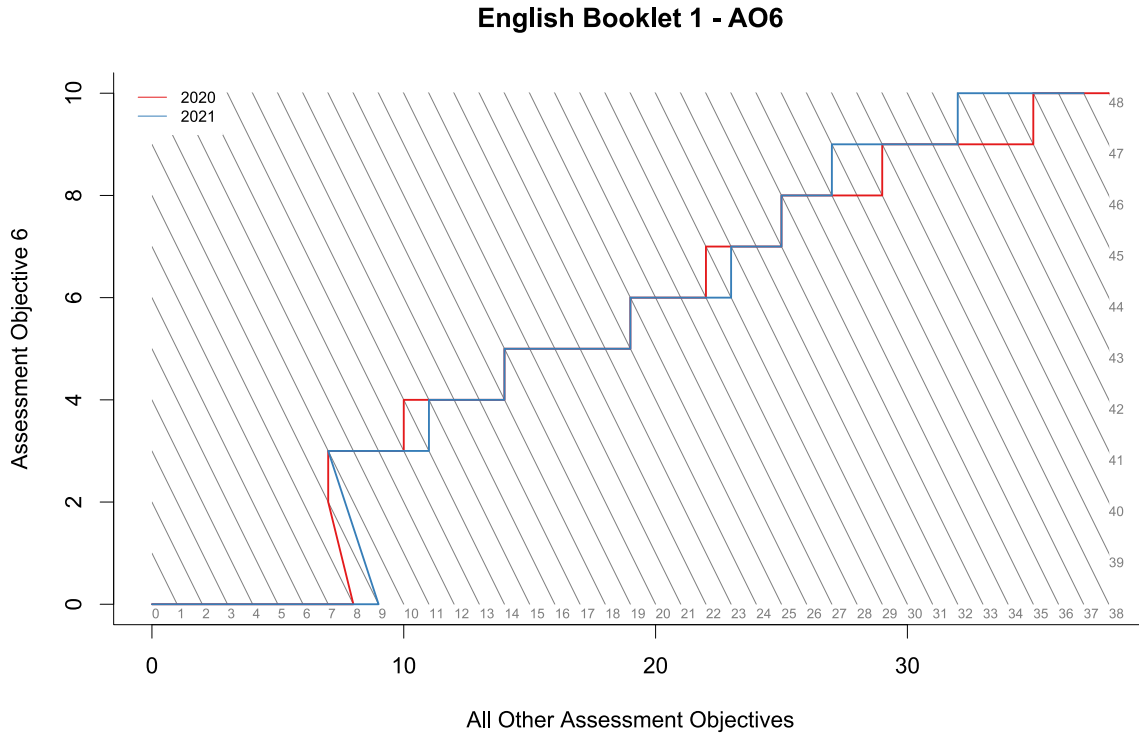
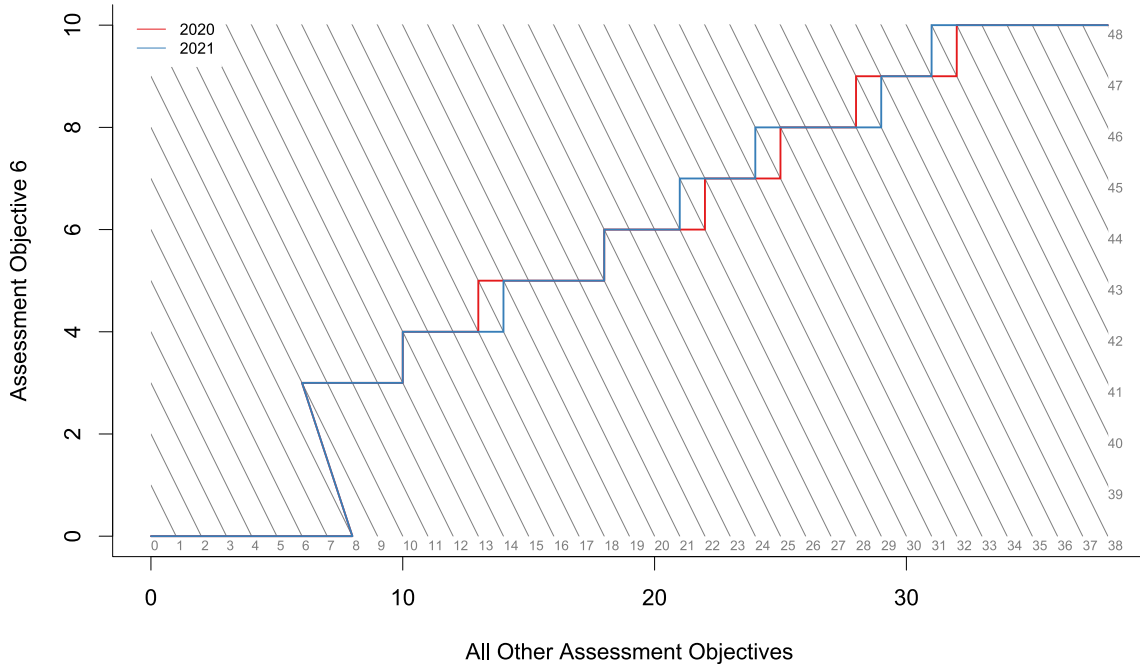


Figure A7 AO6

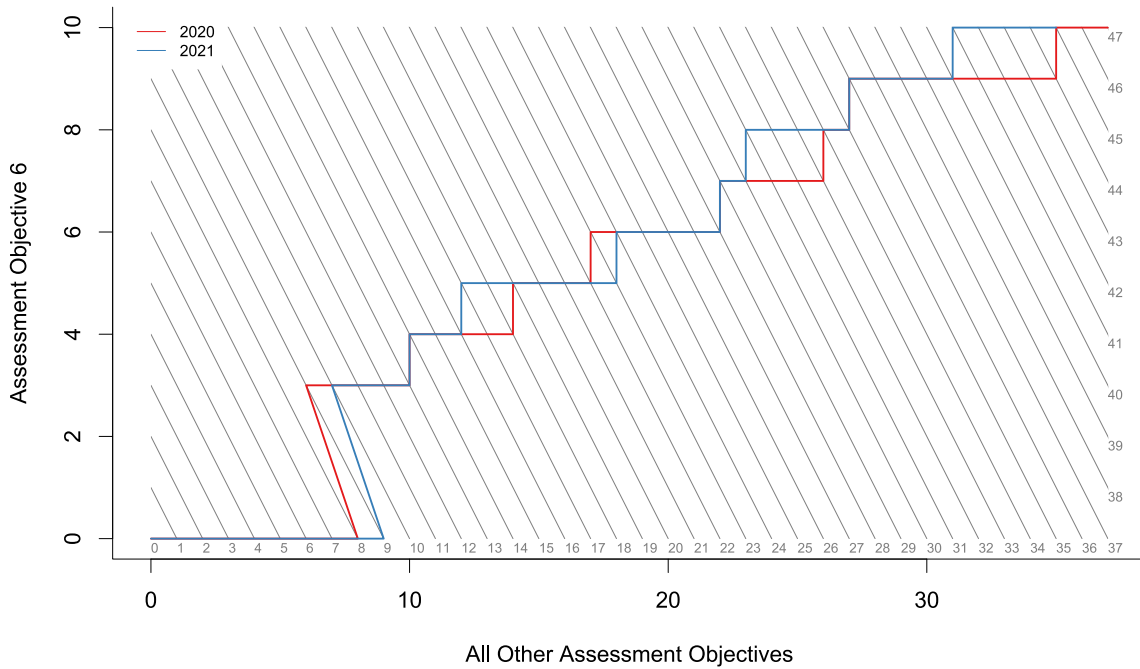
Figure A7 shows profile plots for English Booklets 1 to 8 showing AO6 scores. Each plot maps the scores for AO6 against the other assessment objectives, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance on AO6 in the NRT between 2020 and 2021.



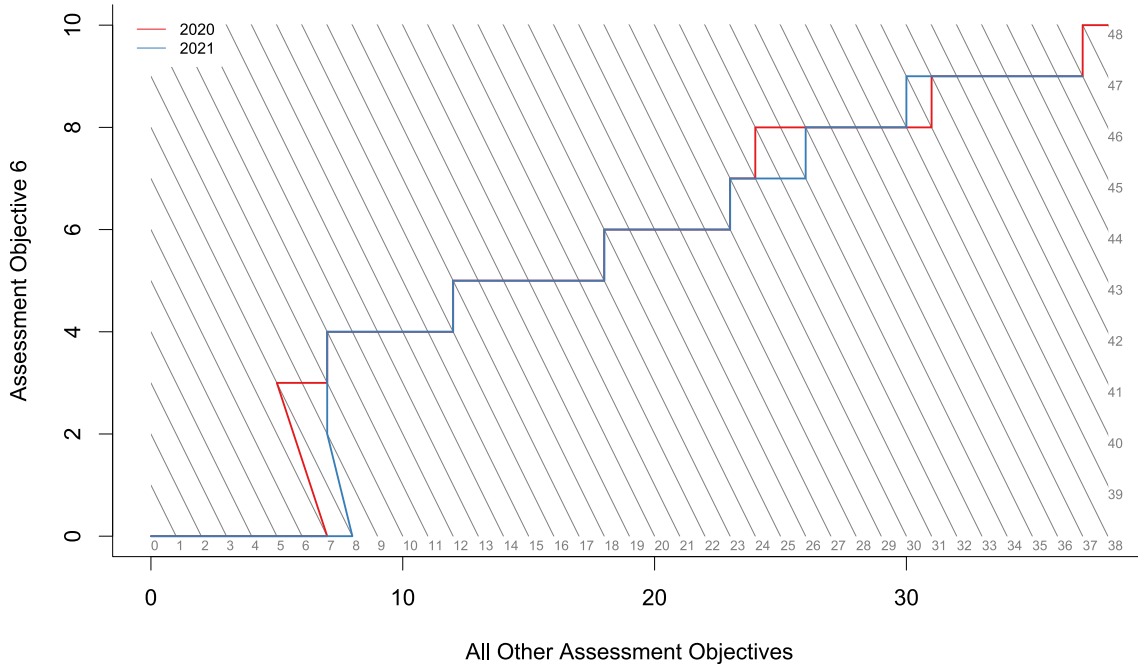
English Booklet 2 - AO6



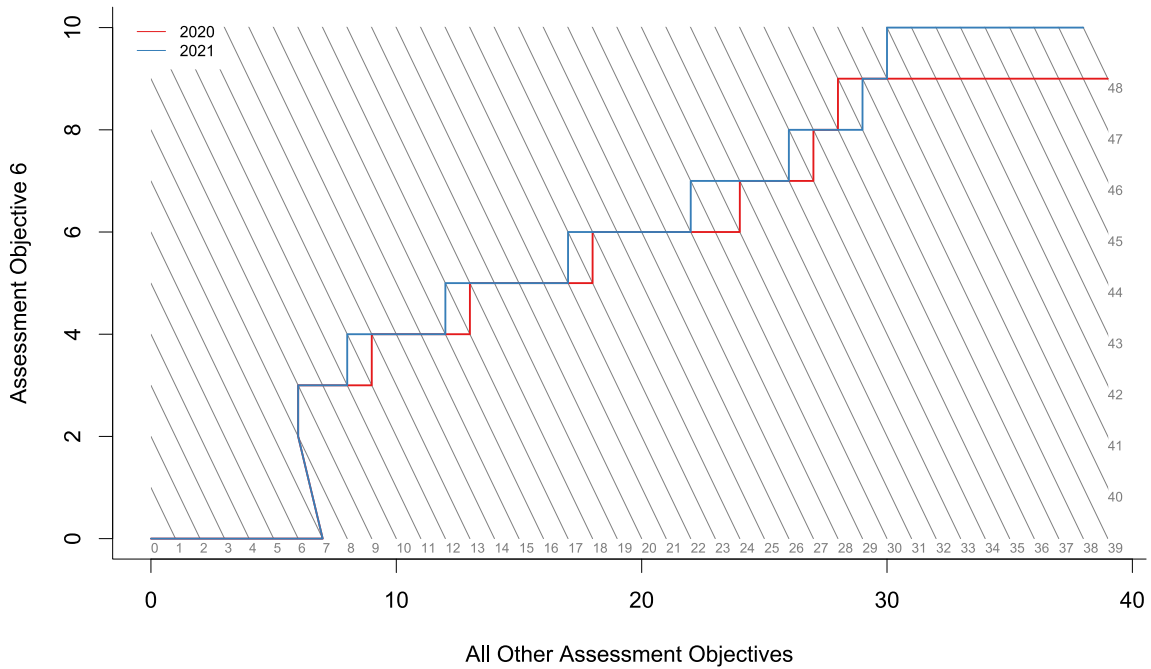
English Booklet 3 - AO6



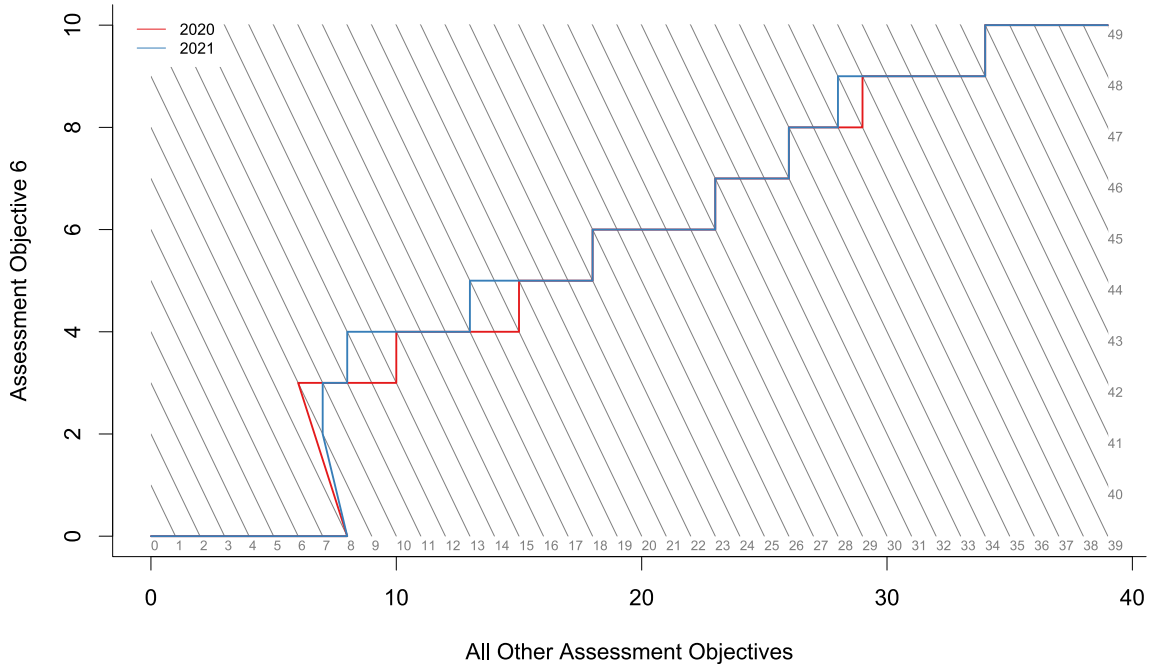
English Booklet 4 - AO6



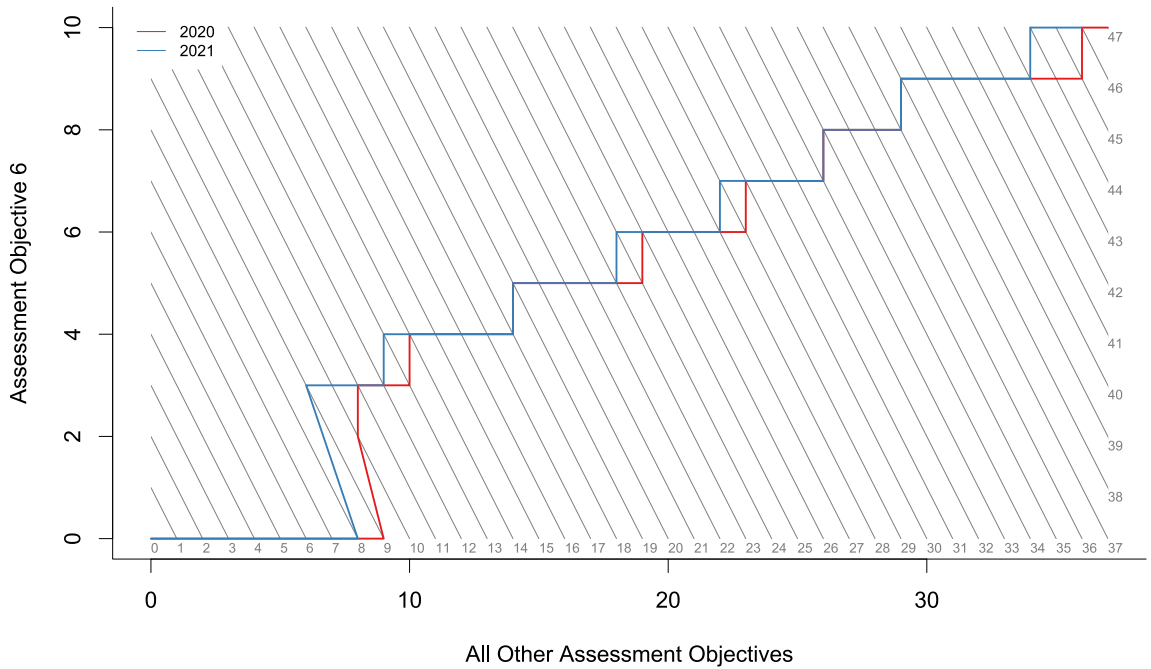
English Booklet 5 - AO6



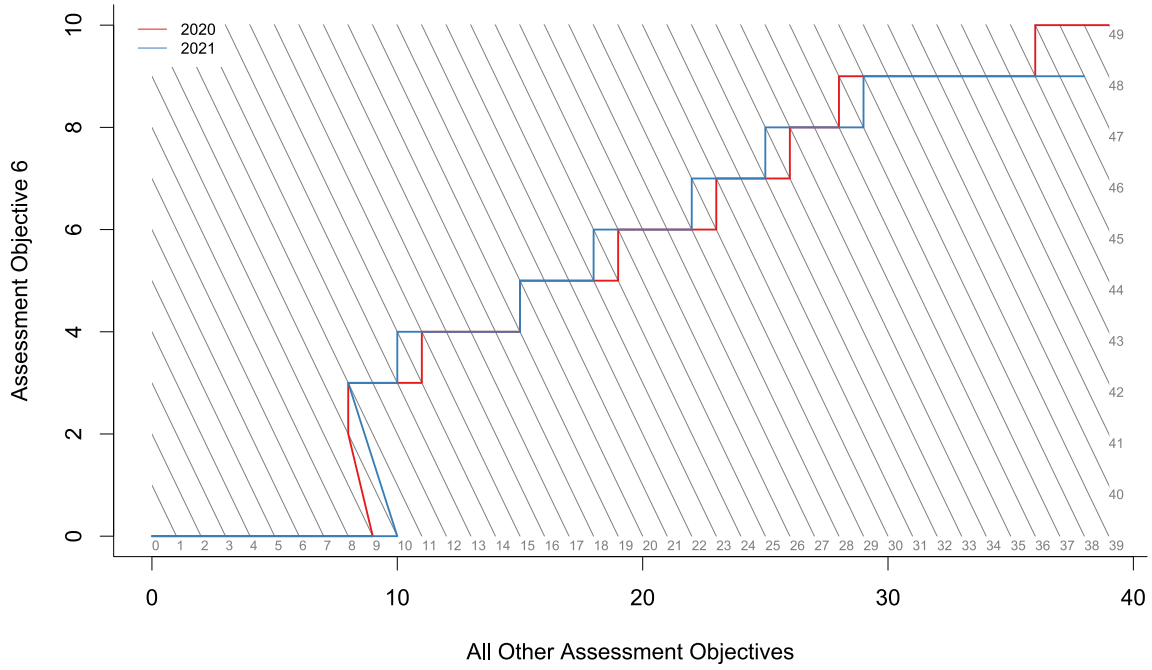
English Booklet 6 - AO6



English Booklet 7 - AO6



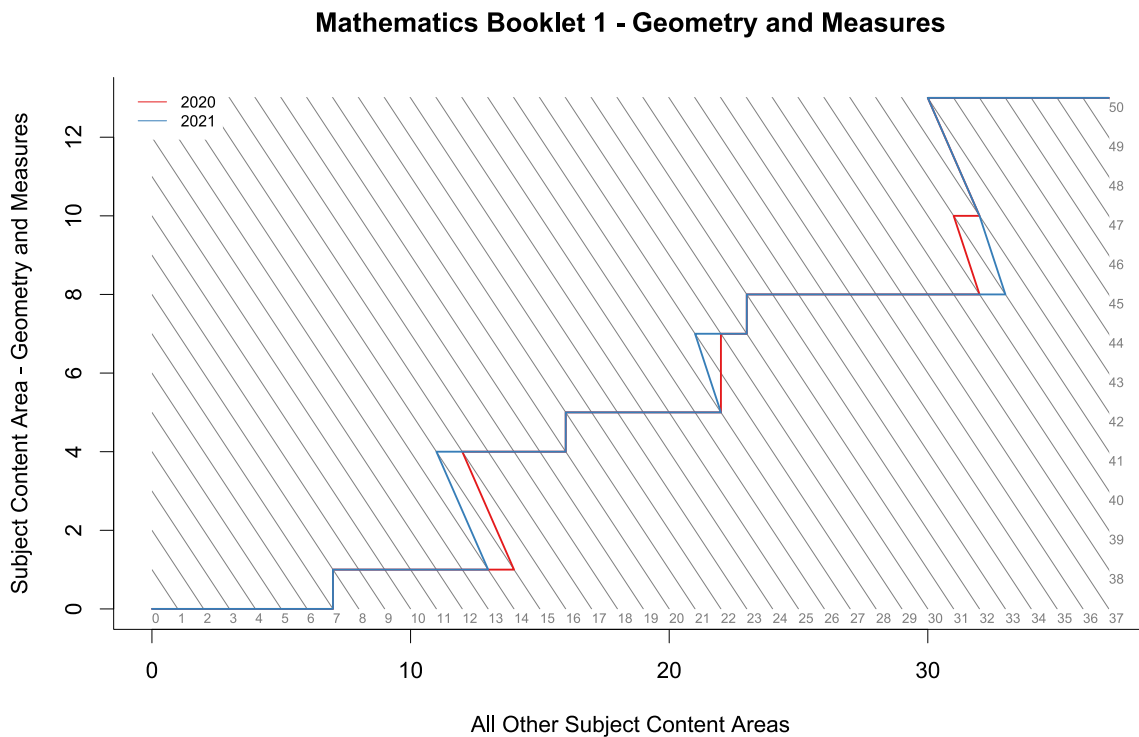
English Booklet 8 - AO6



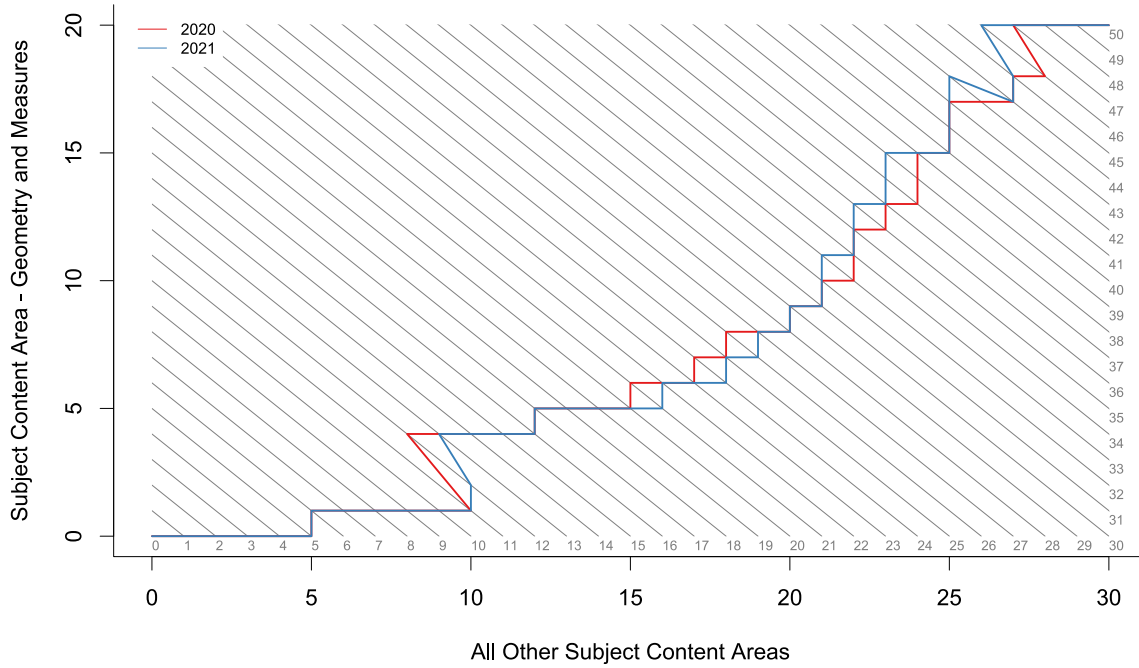
A2 Mathematics profile plots

Figure A8 Subject area – geometry and measures

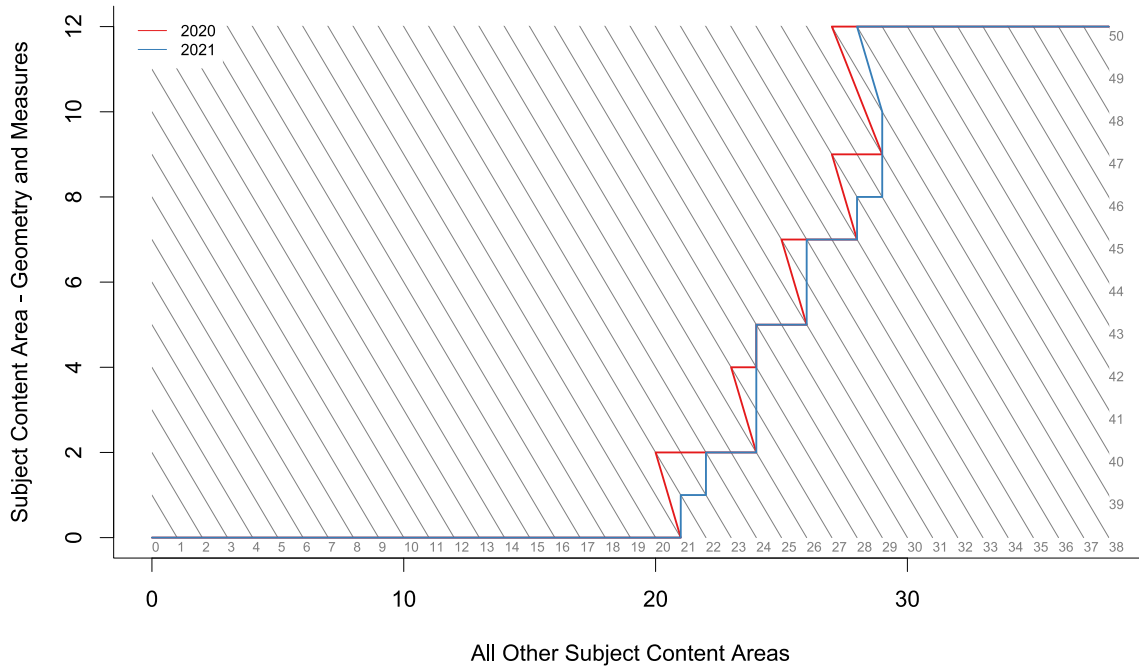
Figure A8 shows profile plots for Mathematics Booklets 1 to 8 showing geometry scores. Each plot maps the scores for geometry against the other subject content areas, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance between 2020 and 2021.



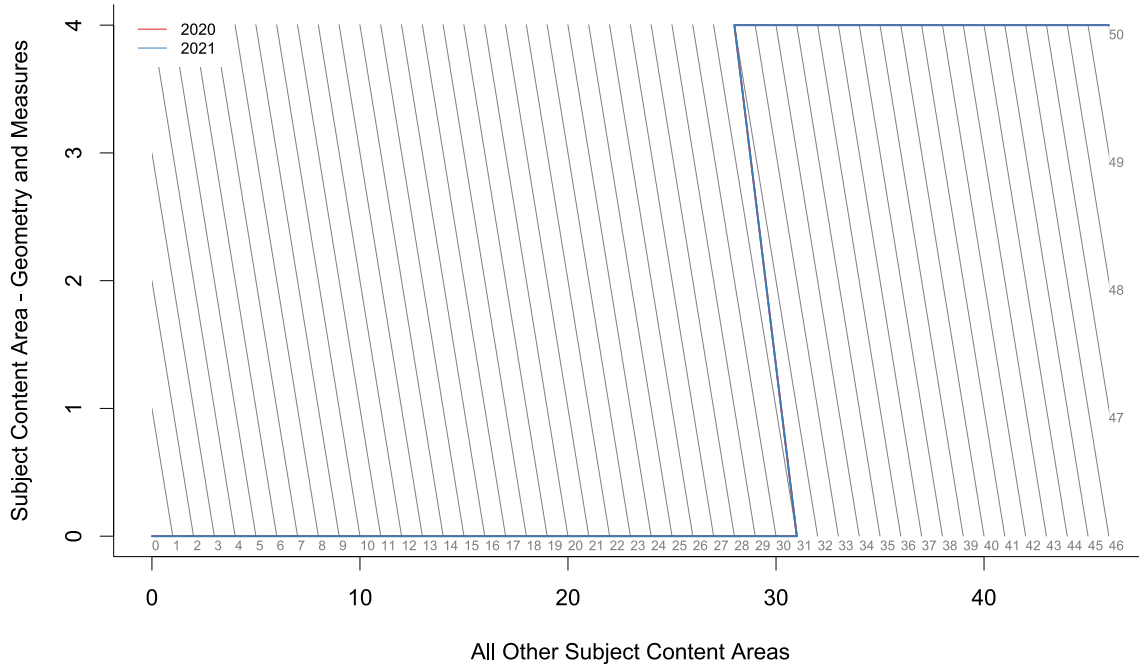
Mathematics Booklet 2 - Geometry and Measures



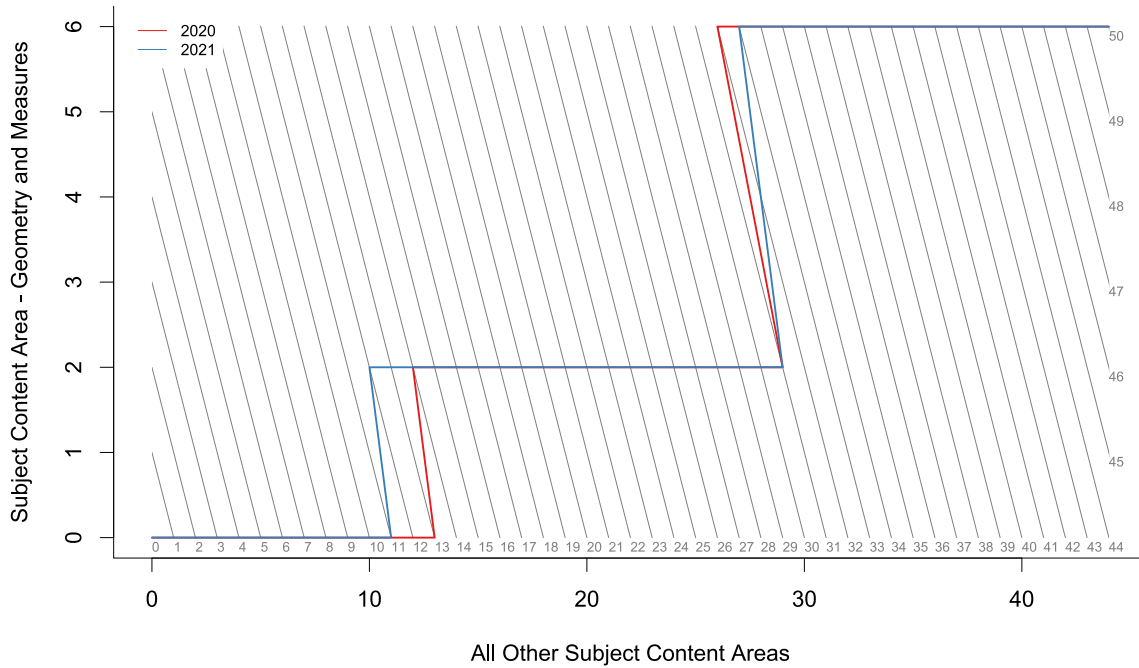
Mathematics Booklet 3 - Geometry and Measures



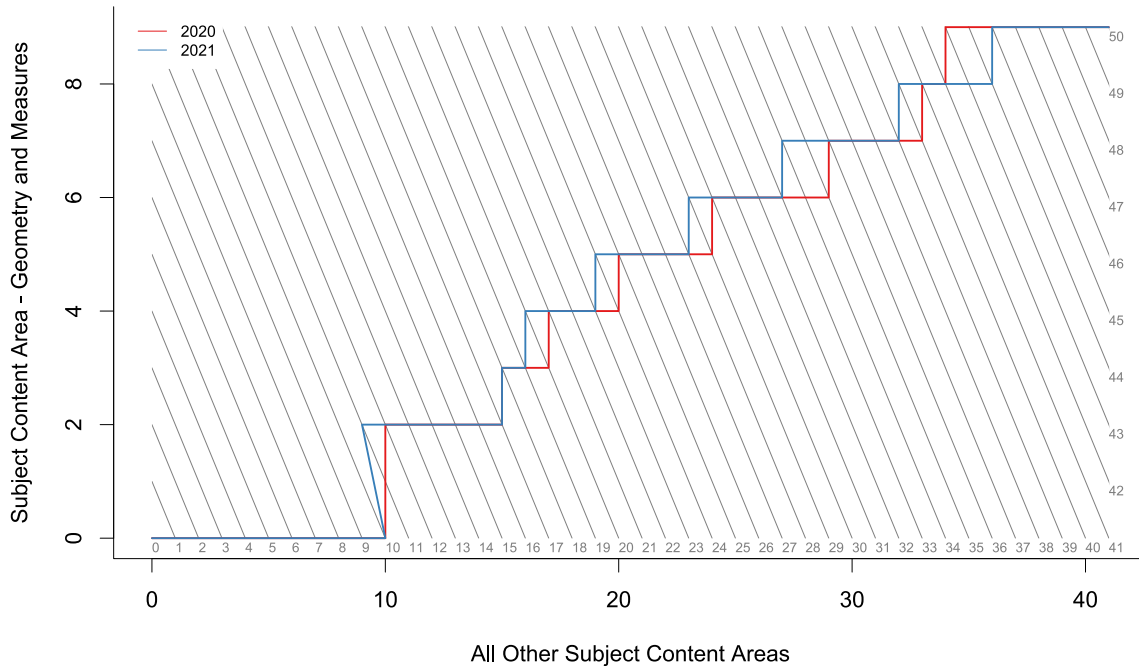
Mathematics Booklet 4 - Geometry and Measures



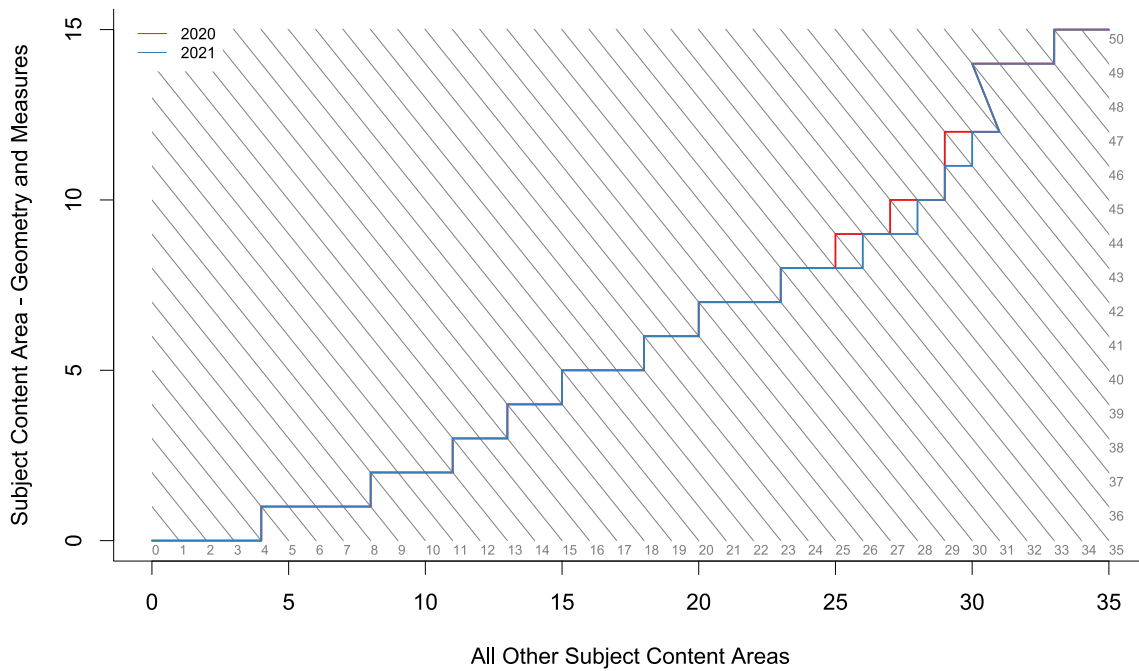
Mathematics Booklet 5 - Geometry and Measures



Mathematics Booklet 6 - Geometry and Measures



Mathematics Booklet 7 - Geometry and Measures



Mathematics Booklet 8 - Geometry and Measures

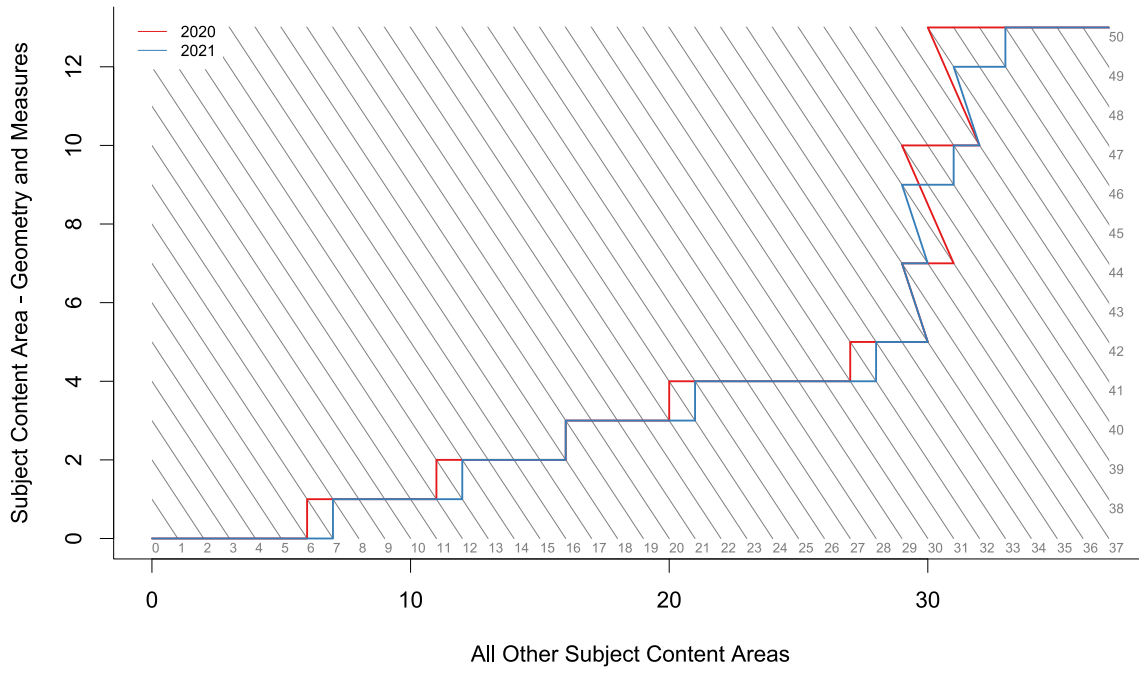
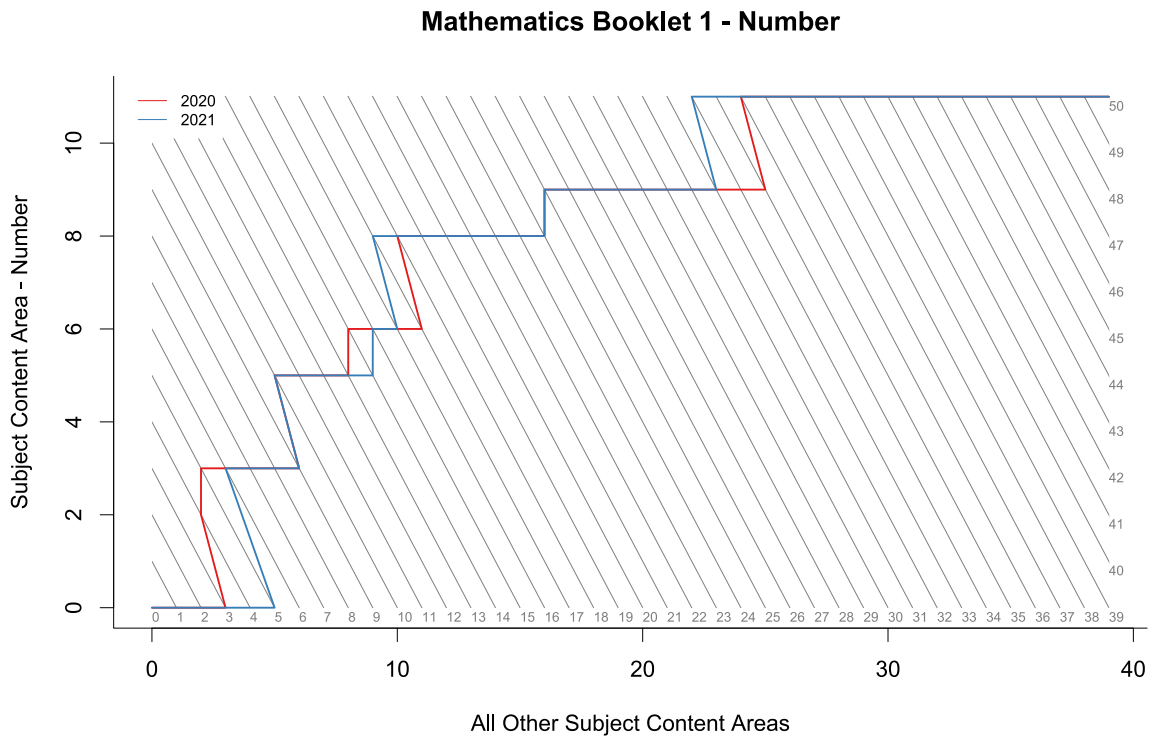
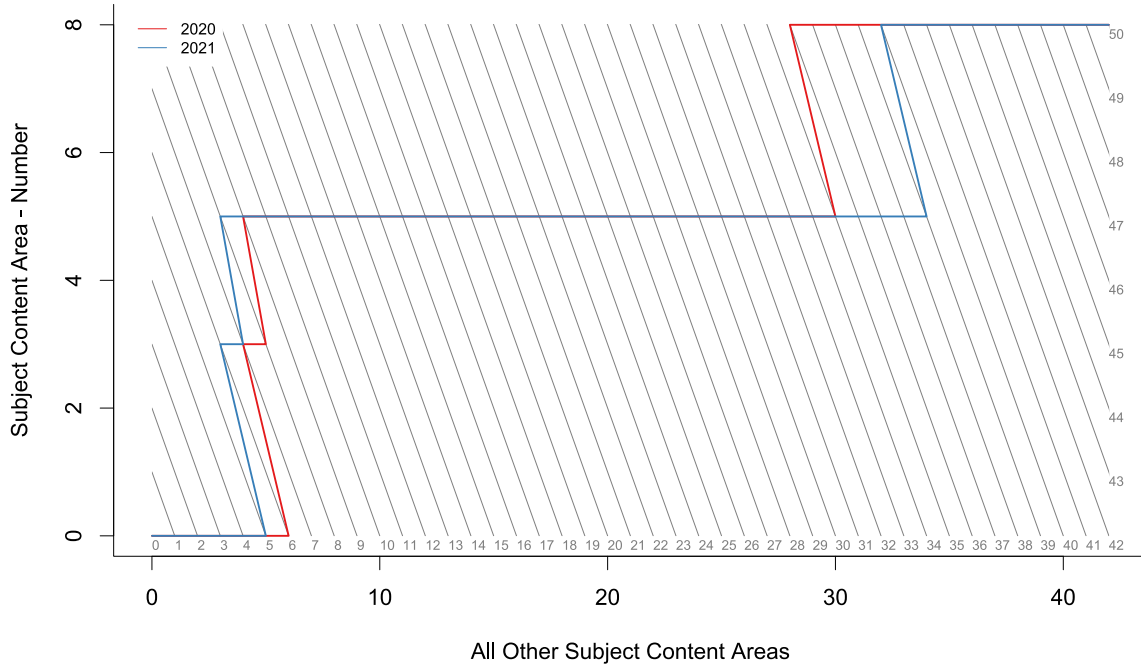


Figure A9 Subject area – number

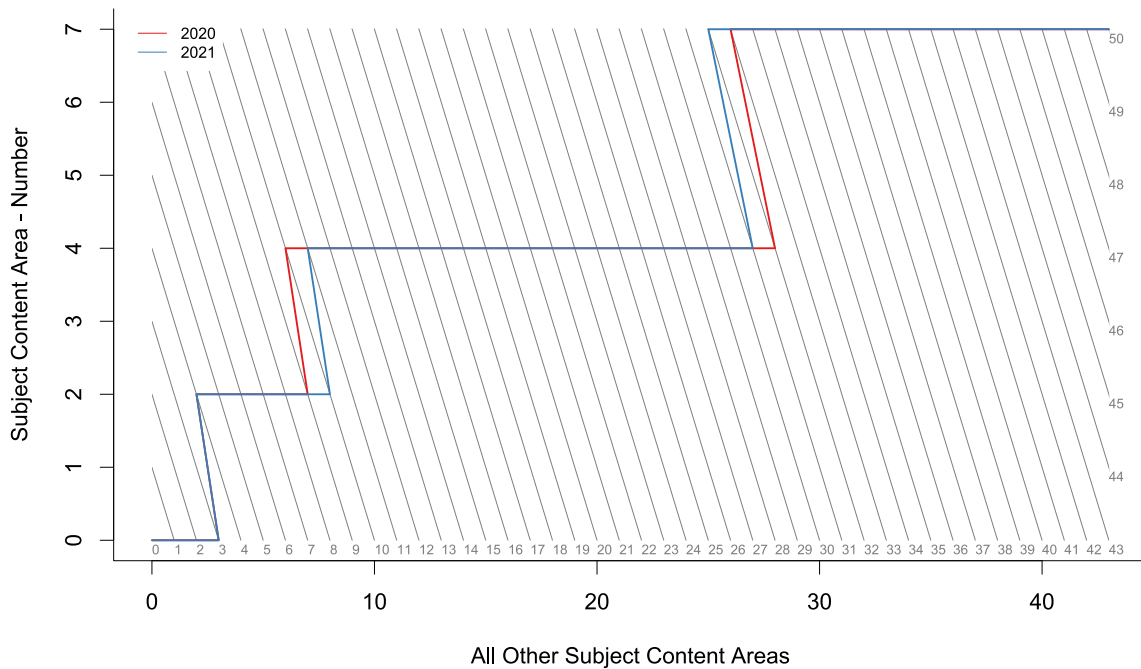
Figure A9 shows profile plot for Mathematics Booklets 1 to 8 showing number scores. Each plot maps the scores for number against the other subject content areas, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance between 2020 and 2021.



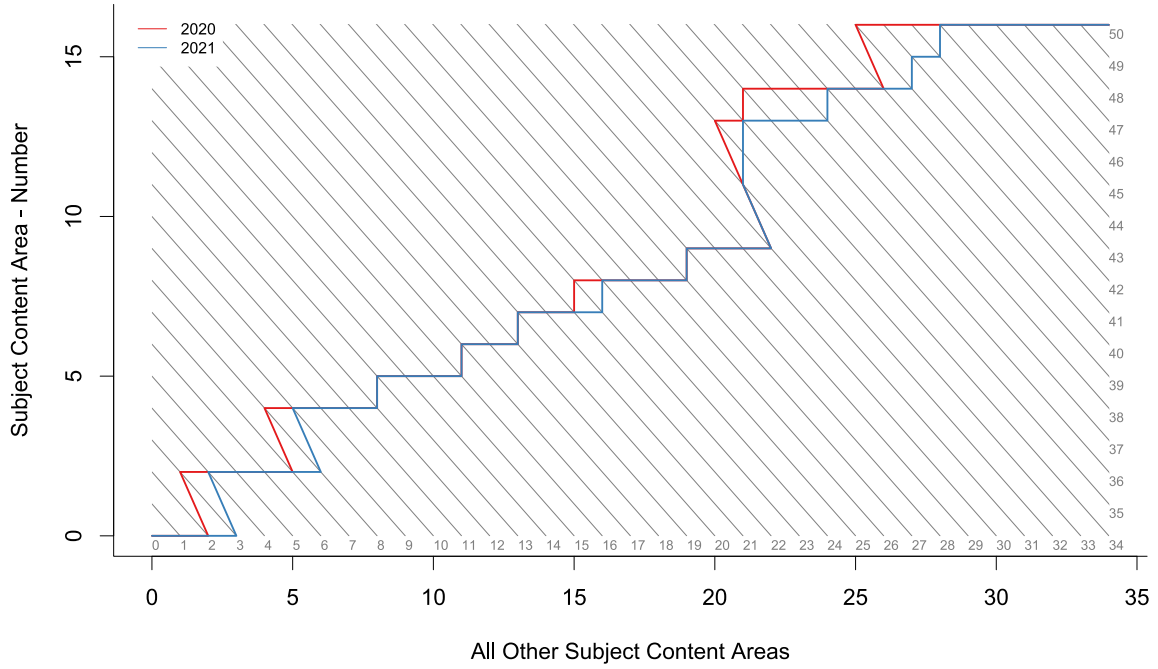
Mathematics Booklet 2 - Number



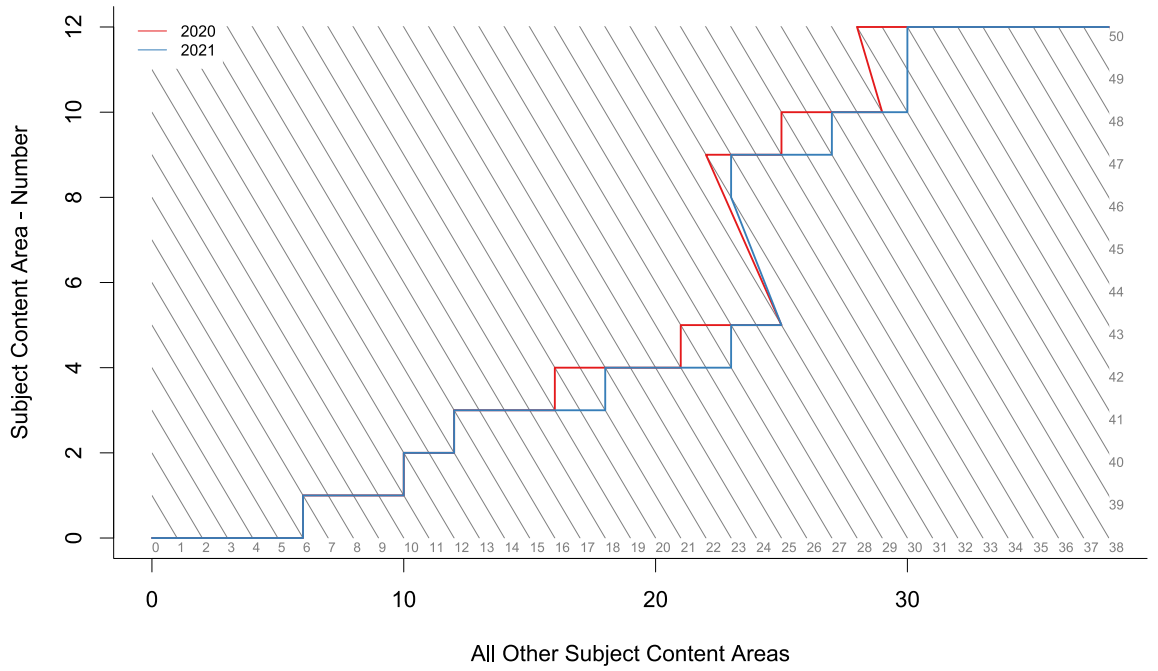
Mathematics Booklet 3 - Number



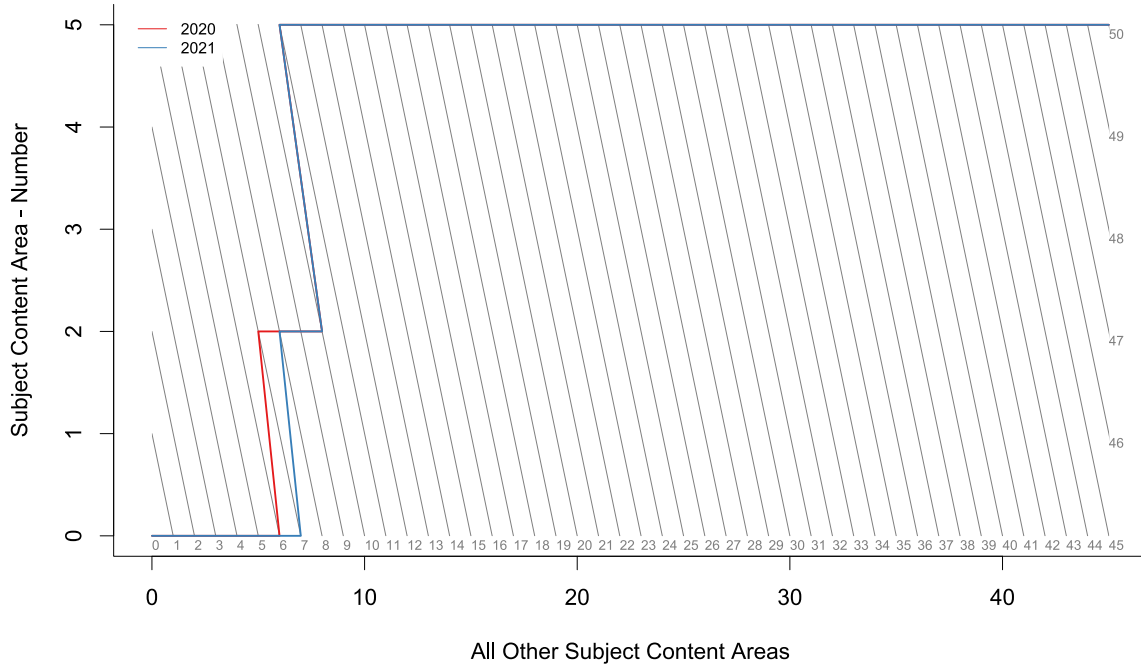
Mathematics Booklet 4 - Number



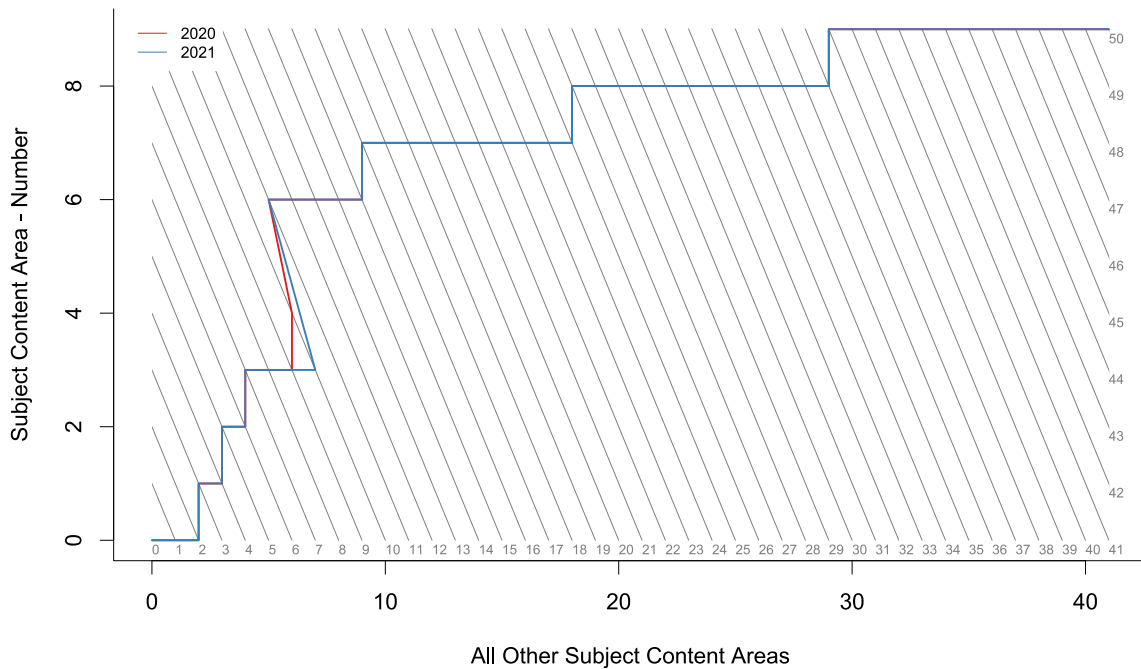
Mathematics Booklet 5 - Number



Mathematics Booklet 6 - Number



Mathematics Booklet 7 - Number



Mathematics Booklet 8 - Number

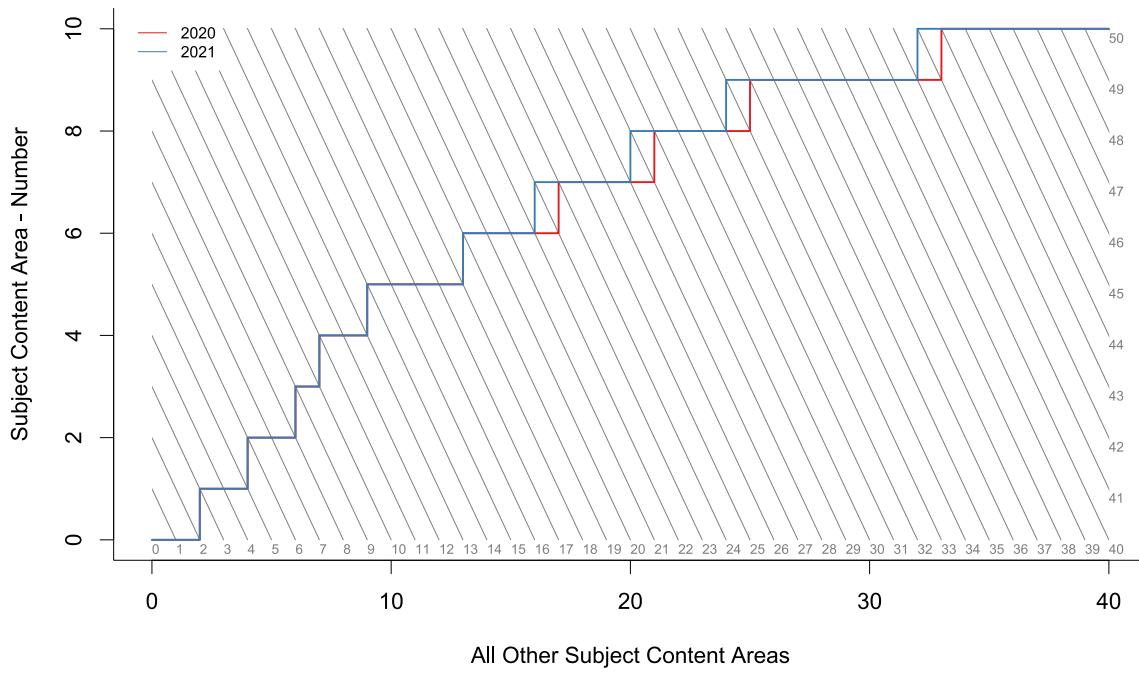
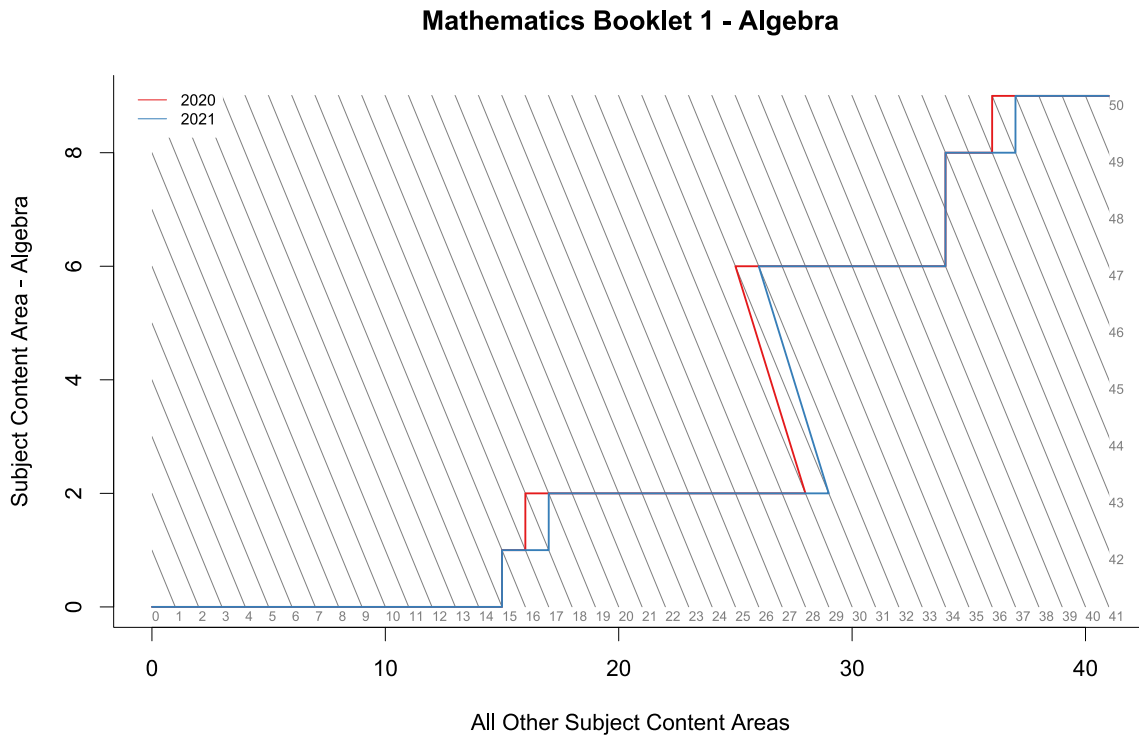
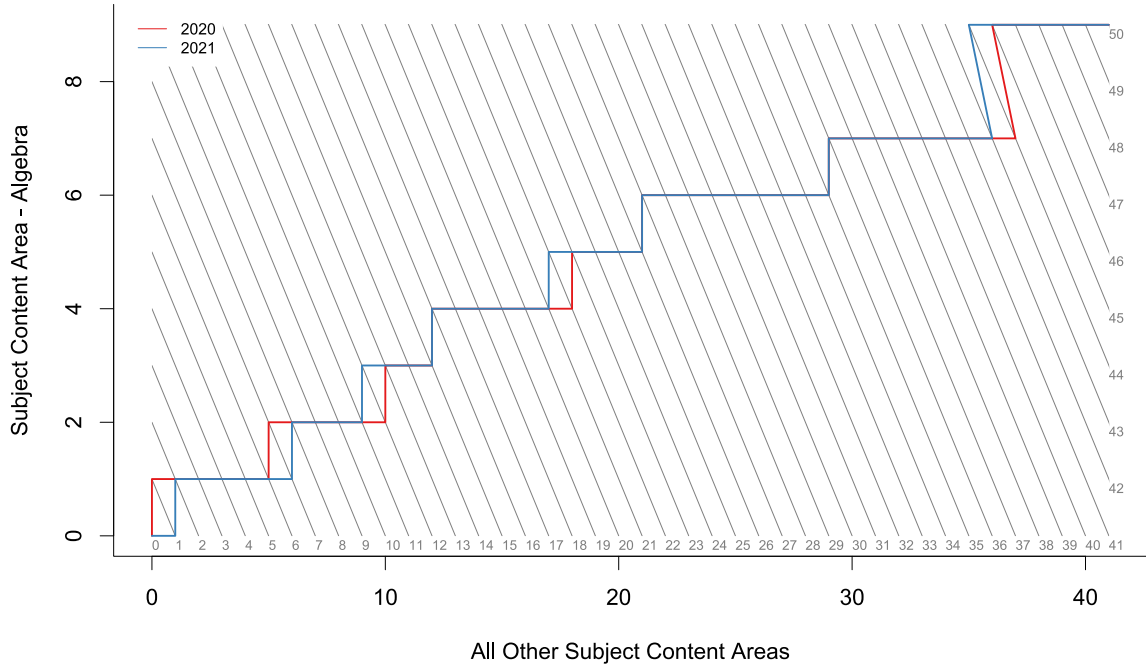


Figure A10 Subject area – algebra

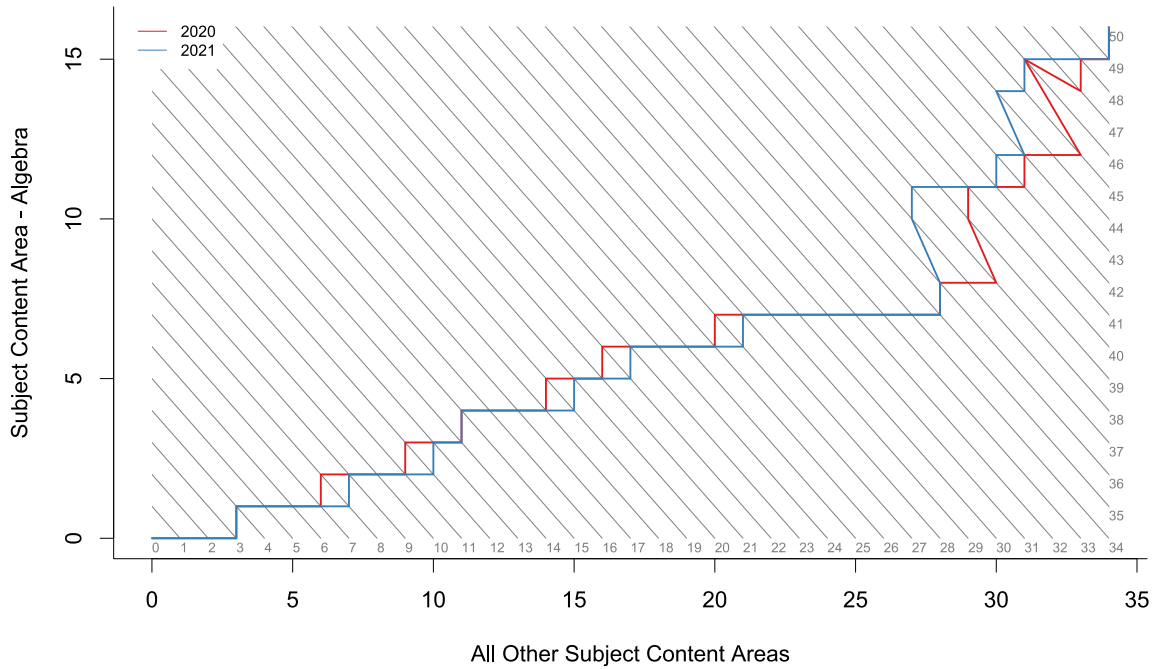
Figure A10 shows profile plots for Mathematics Booklets 1 to 8 showing algebra scores. Each plot maps the scores for algebra against the other subject content areas, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance between 2020 and 2021.



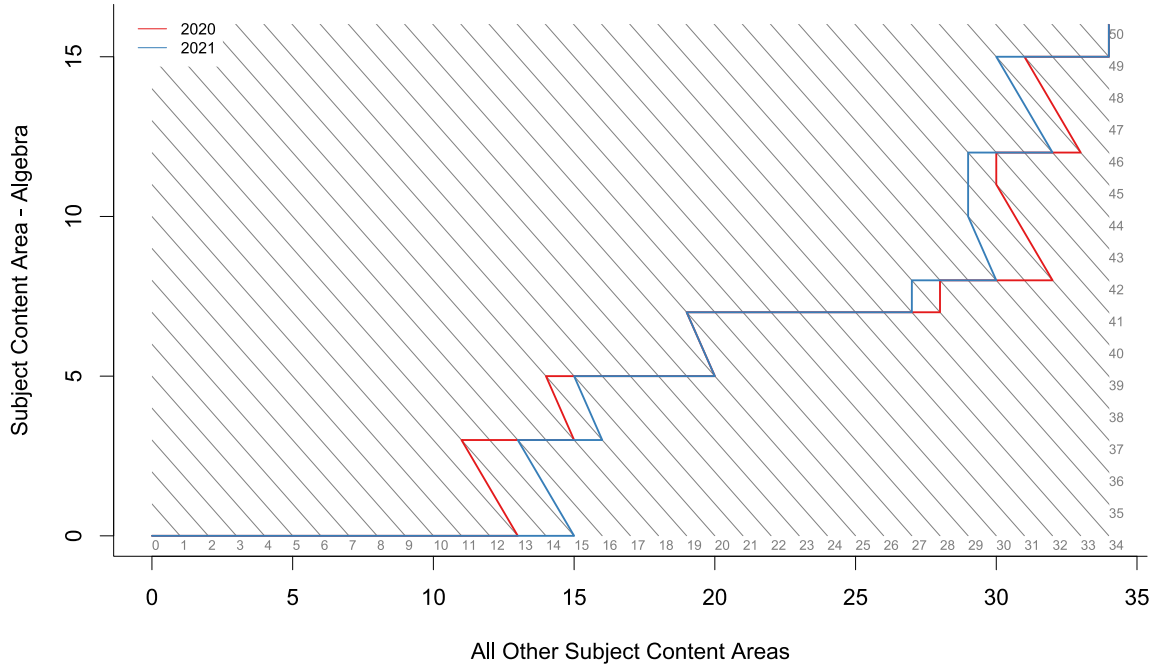
Mathematics Booklet 2 - Algebra



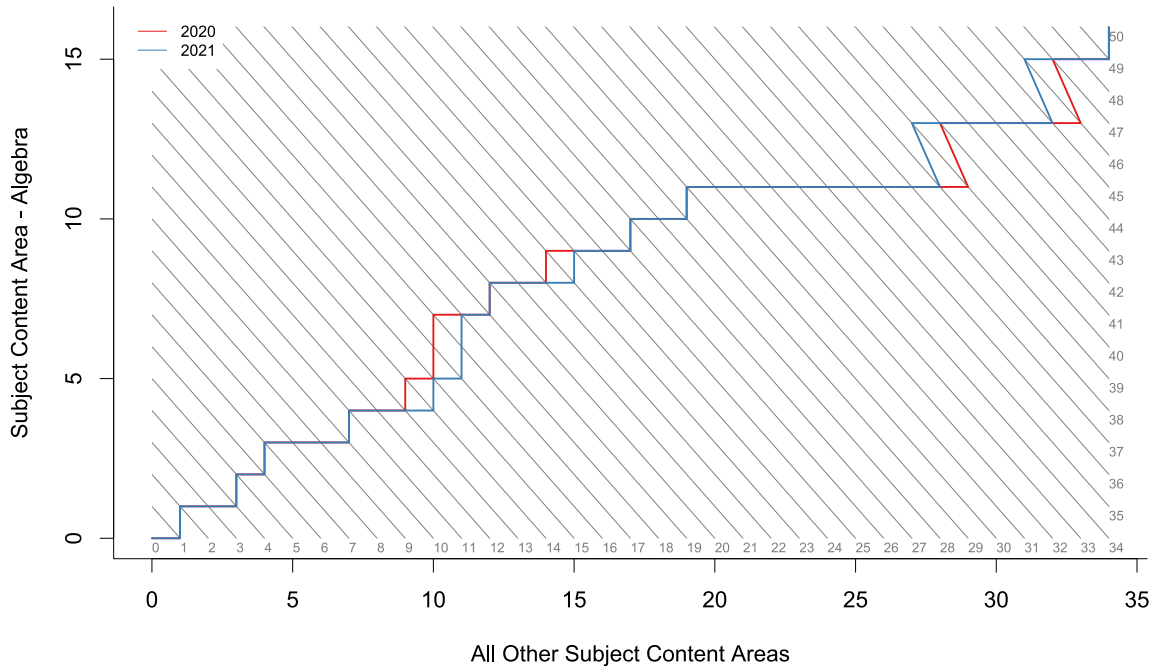
Mathematics Booklet 3 - Algebra



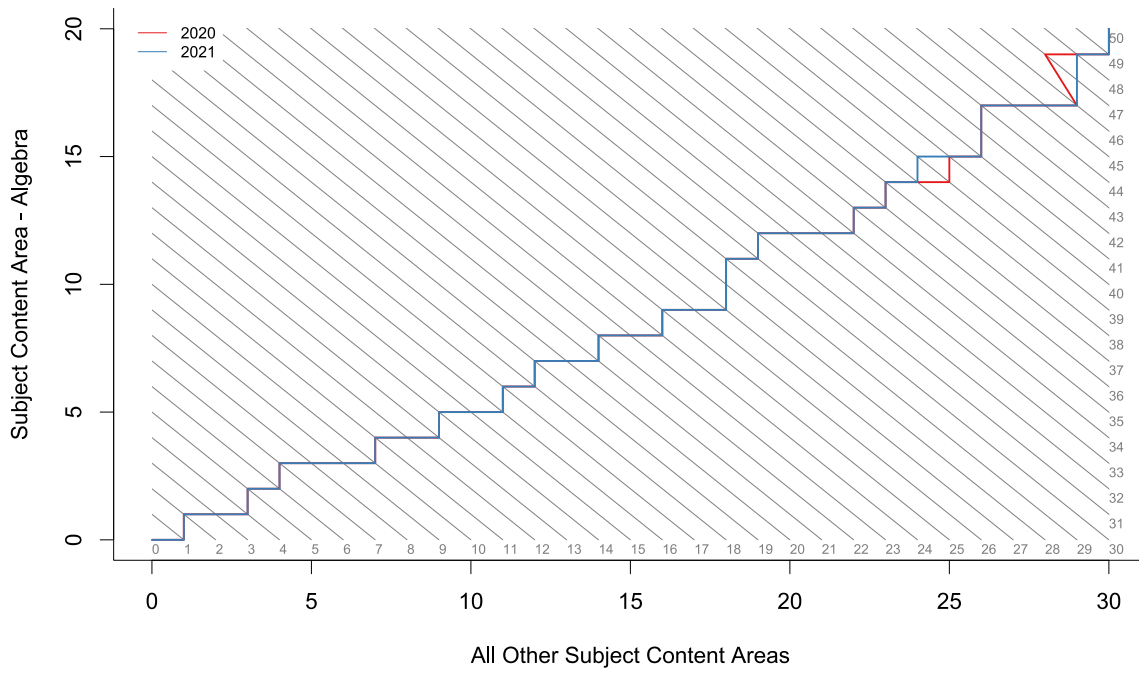
Mathematics Booklet 4 - Algebra



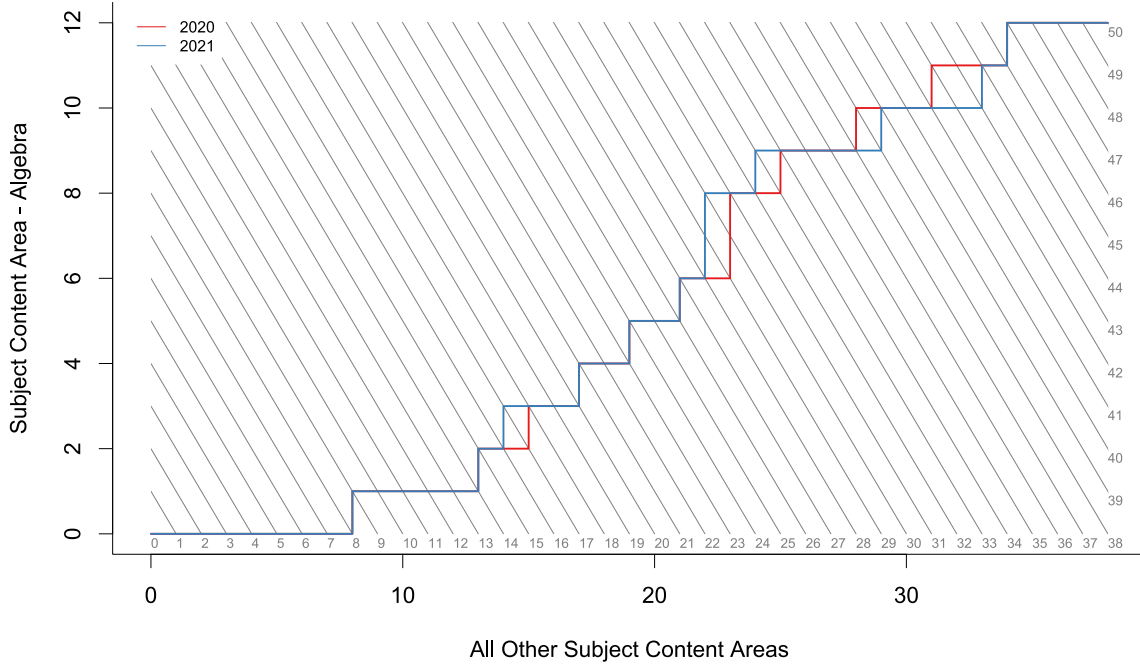
Mathematics Booklet 5 - Algebra



Mathematics Booklet 6 - Algebra



Mathematics Booklet 7 - Algebra



Mathematics Booklet 8 - Algebra

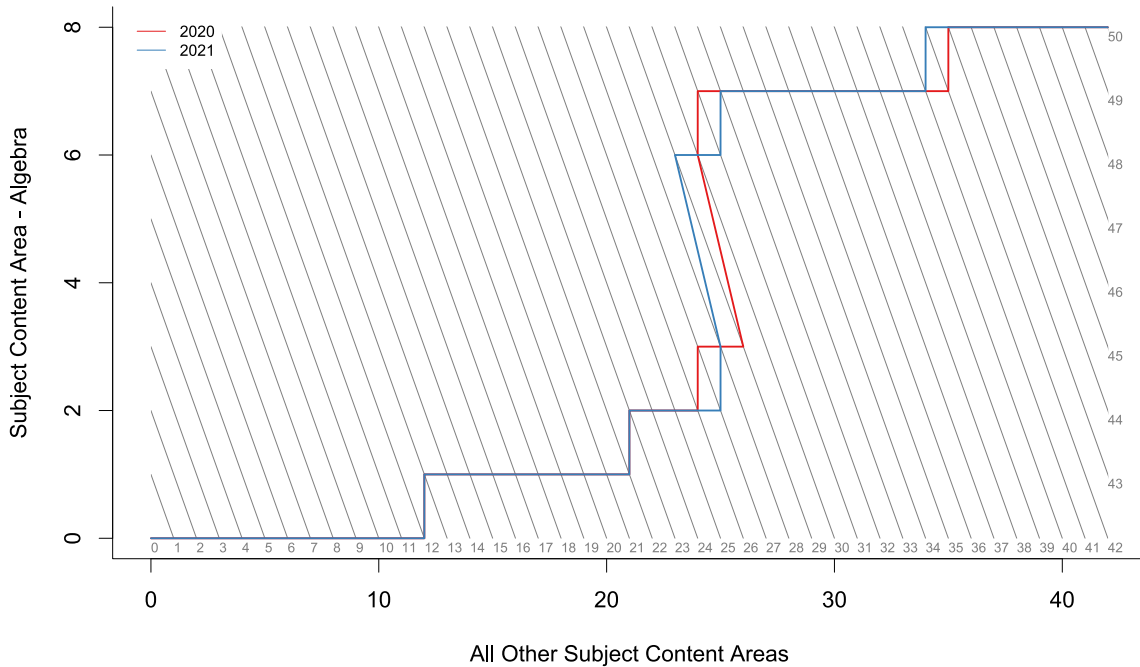
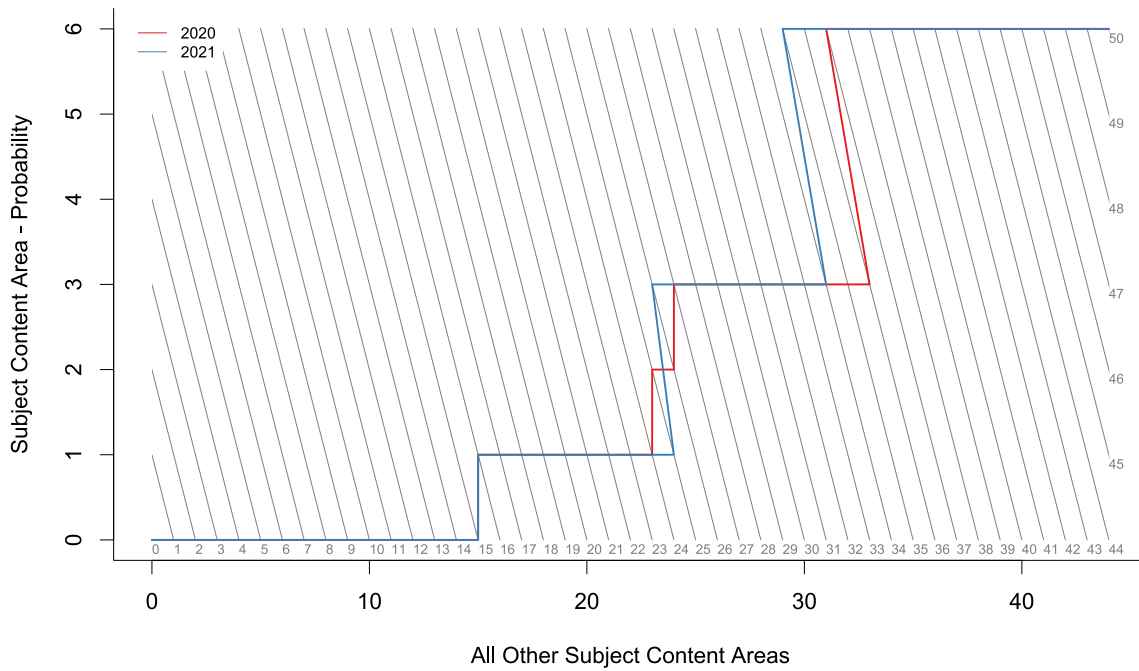


Figure A11 Subject area – probability

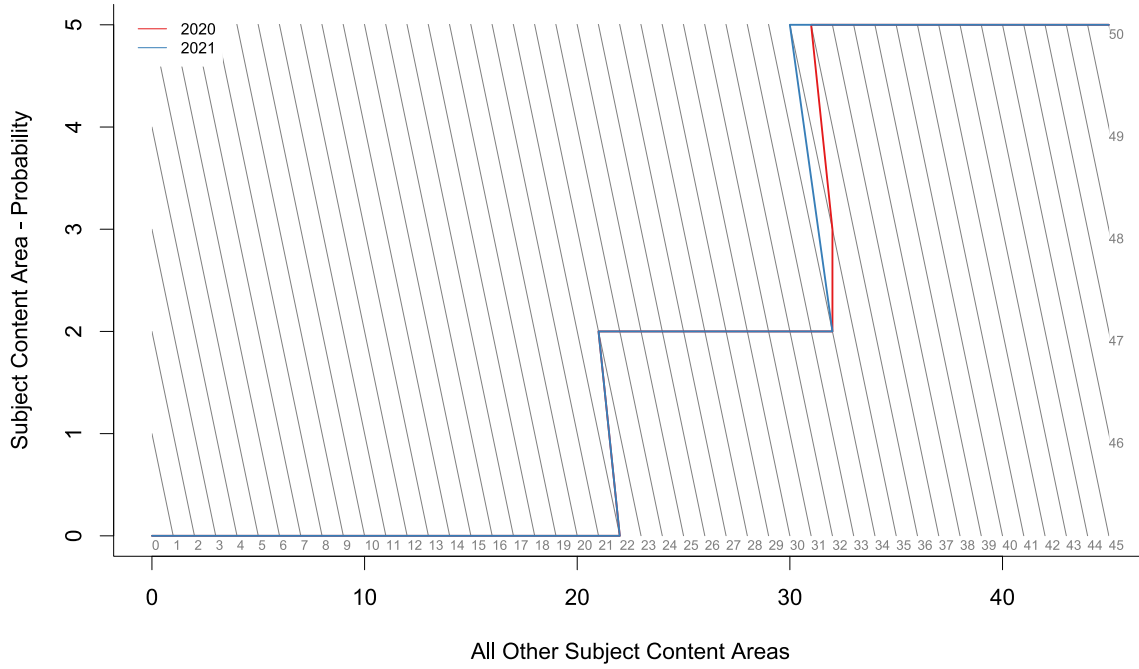
(Booklet 7 does not contain any probability items)

Figure A11 shows profile plots for Mathematics Booklets 1, 2, 3, 4, 5, 6 and 8 showing probability scores. Each plot maps the scores for probability against the other subject content areas, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance between 2020 and 2021.

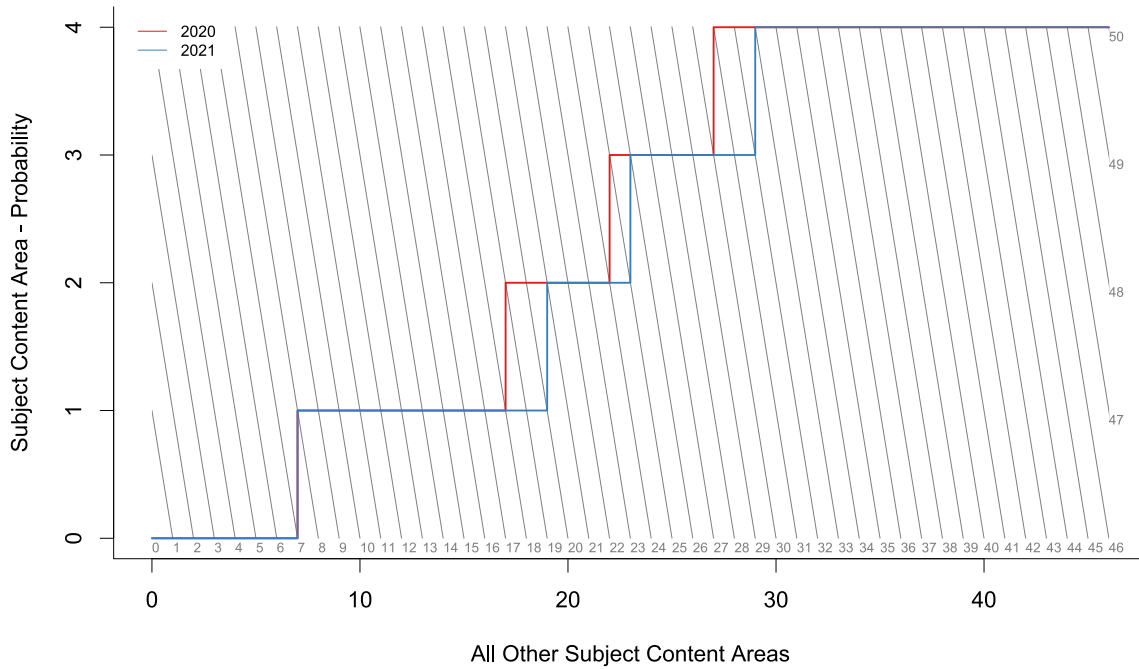
Mathematics Booklet 1 - Probability



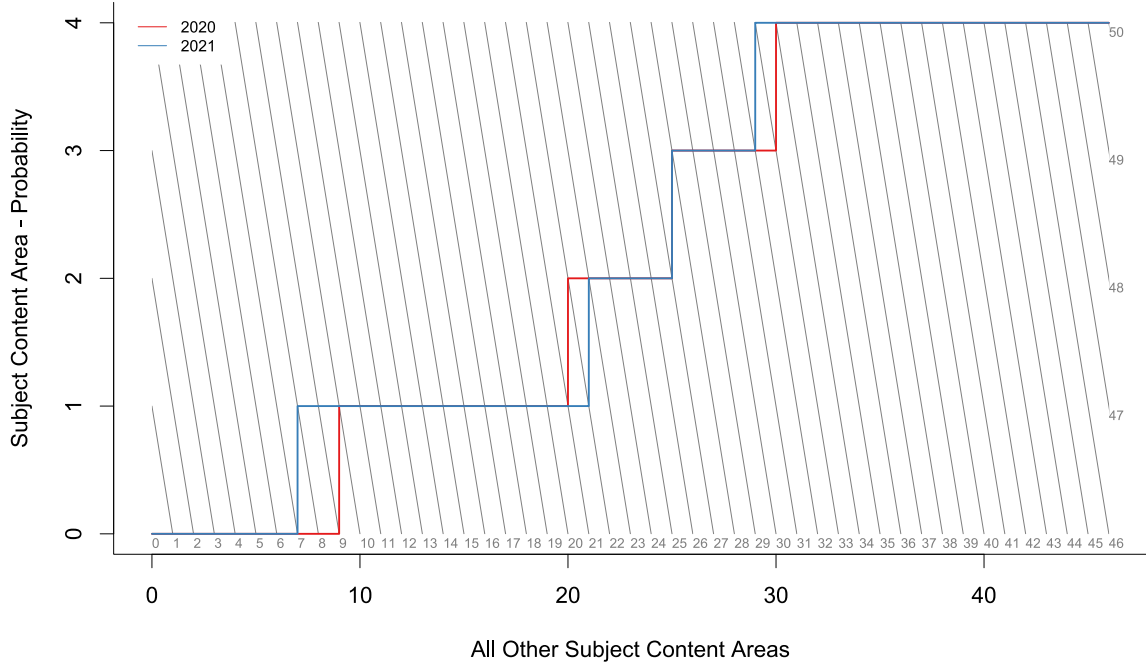
Mathematics Booklet 2 - Probability



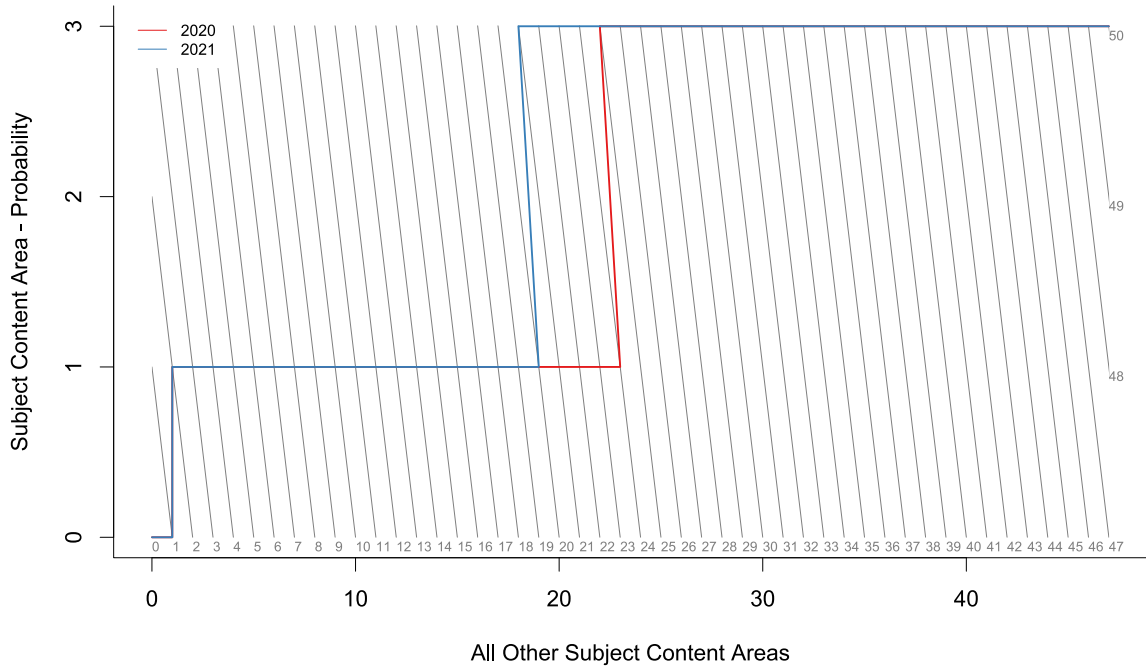
Mathematics Booklet 3 - Probability



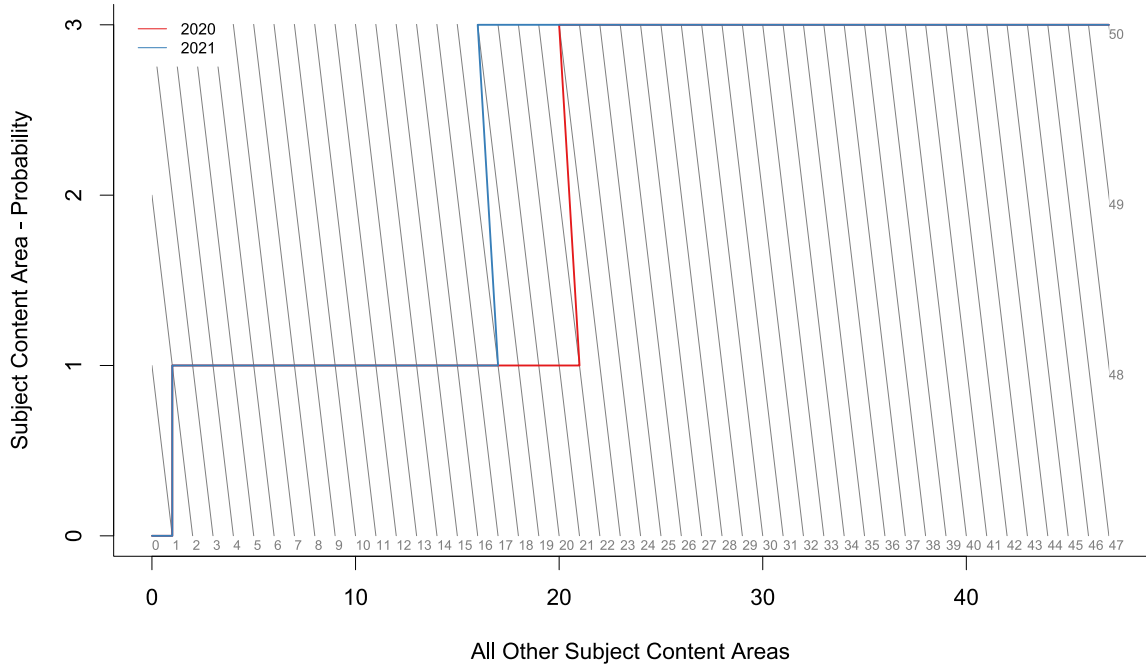
Mathematics Booklet 4 - Probability



Mathematics Booklet 5 - Probability



Mathematics Booklet 6 - Probability



Mathematics Booklet 8 - Probability

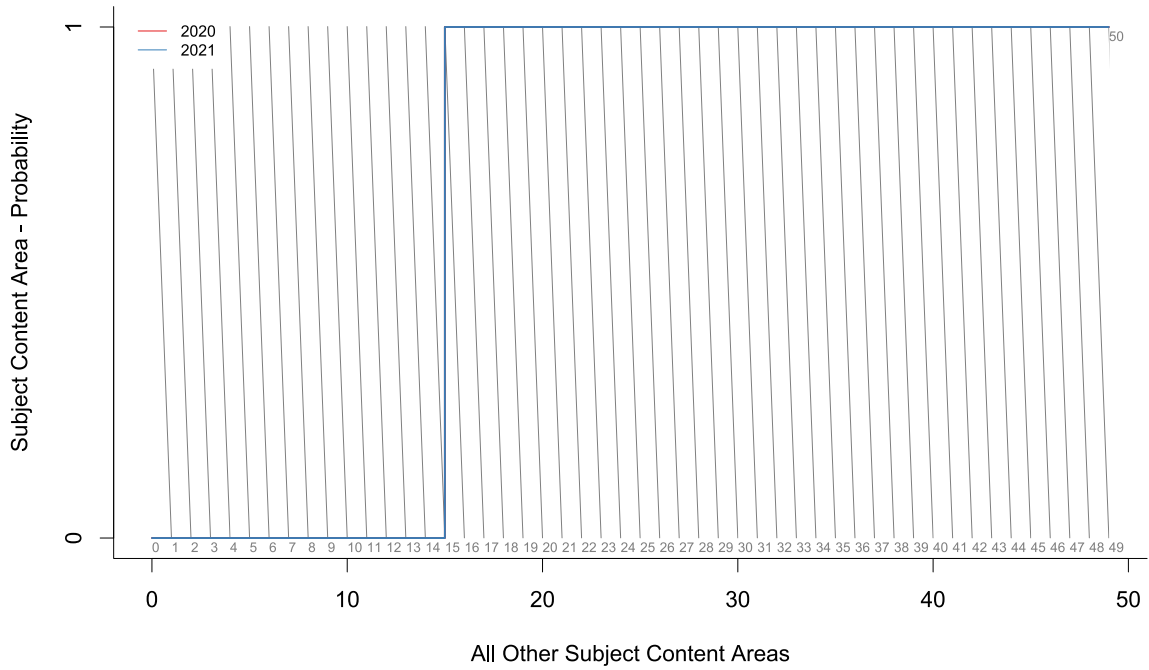
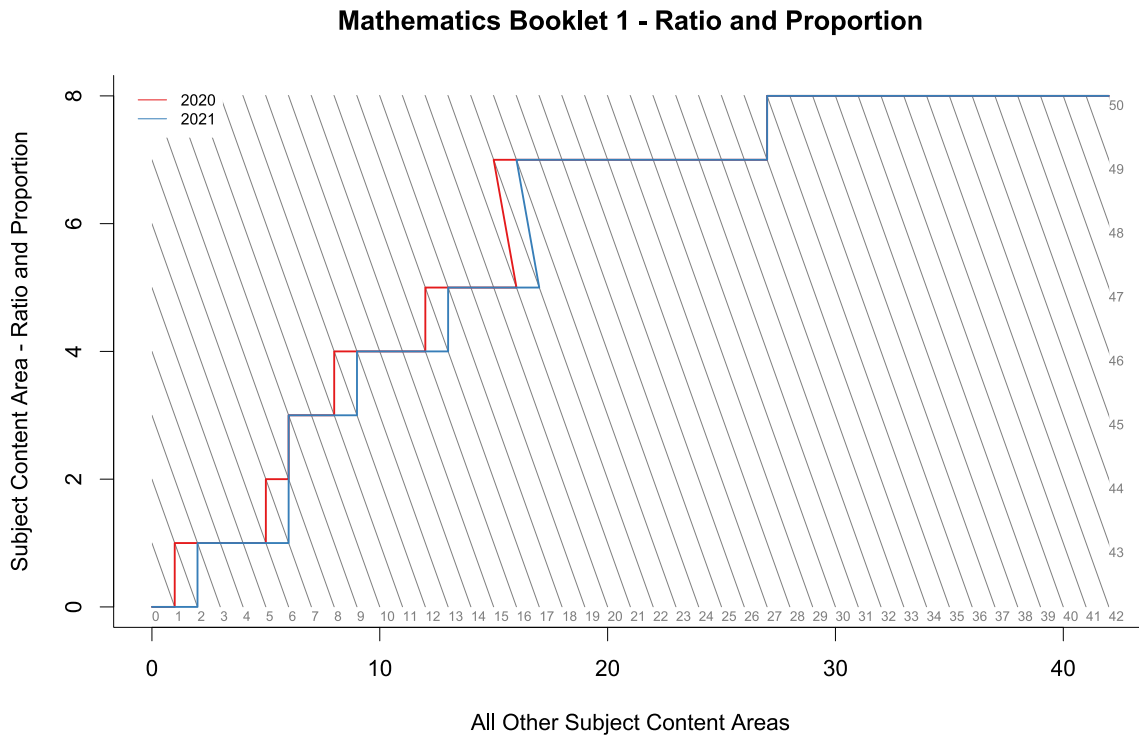
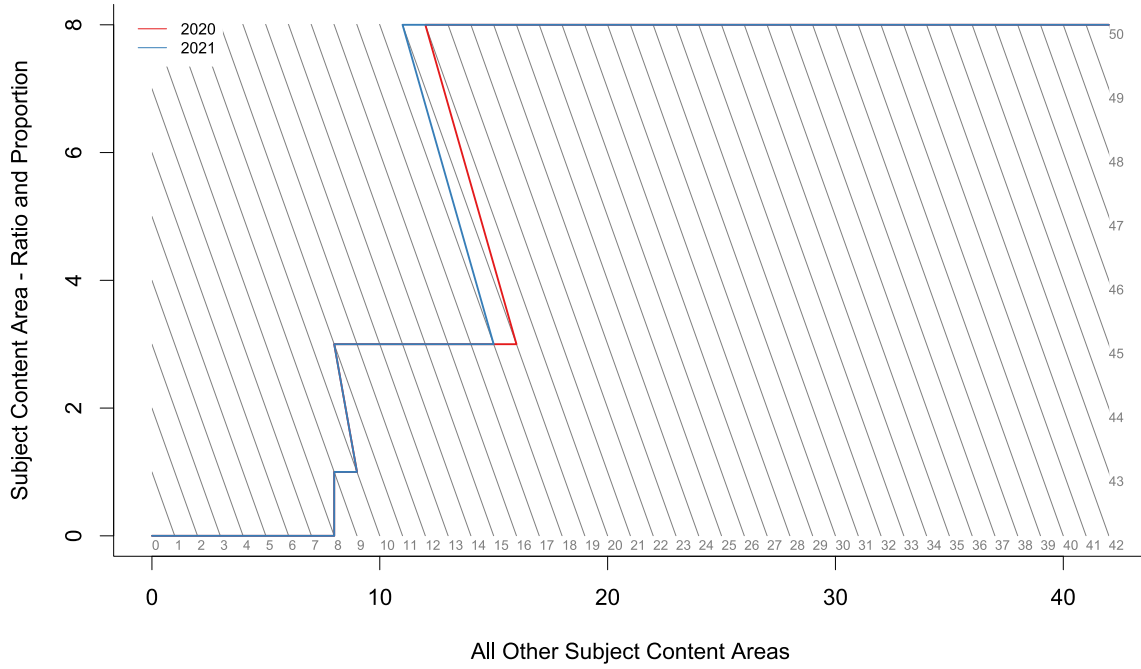


Figure A12 Subject area – ratio and proportion

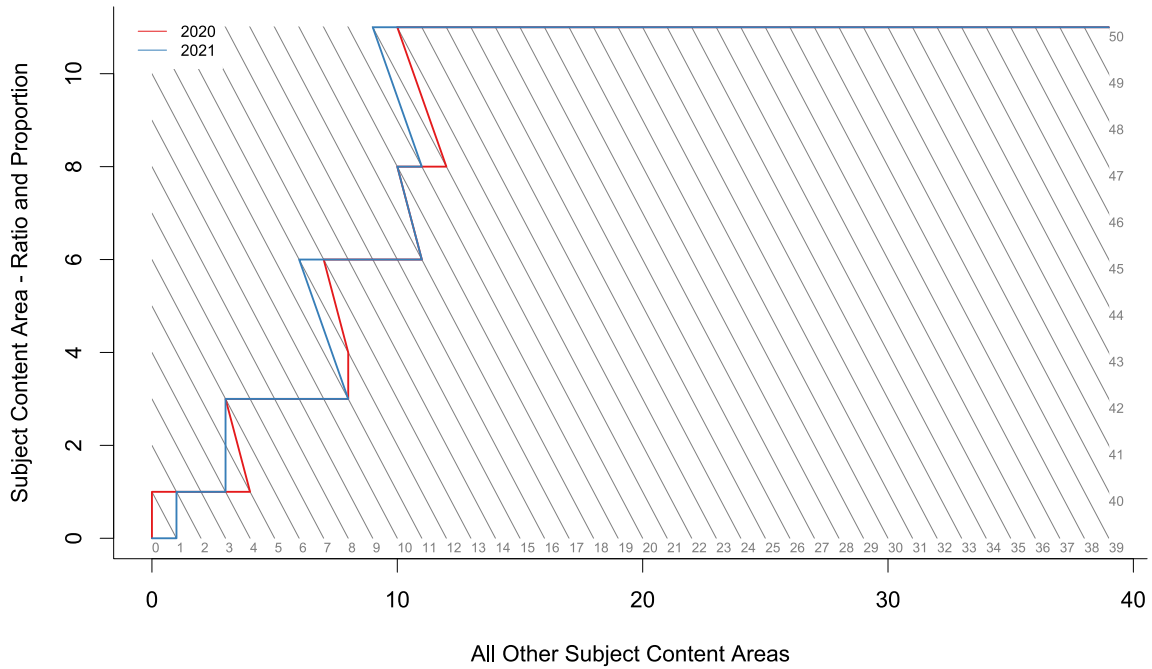
Figure A12 shows profile plots for Mathematics Booklets 1 to 8 showing ratio and proportion scores. Each plot maps the scores for ratio and proportion against the other subject content areas, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear difference in performance between 2020 and 2021.



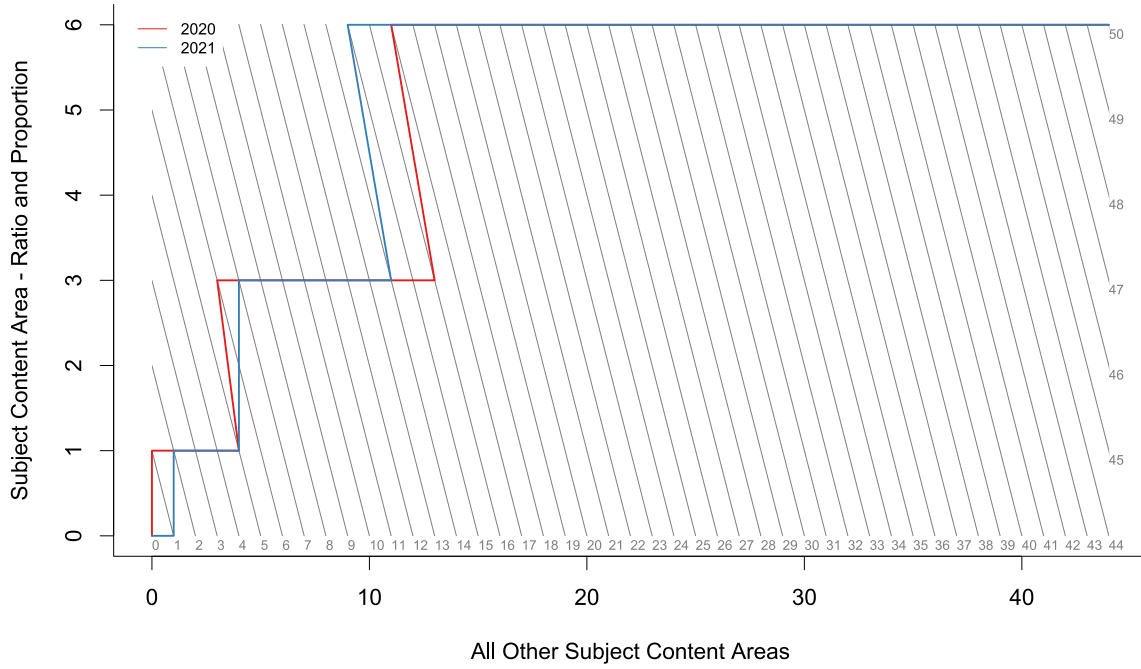
Mathematics Booklet 2 - Ratio and Proportion



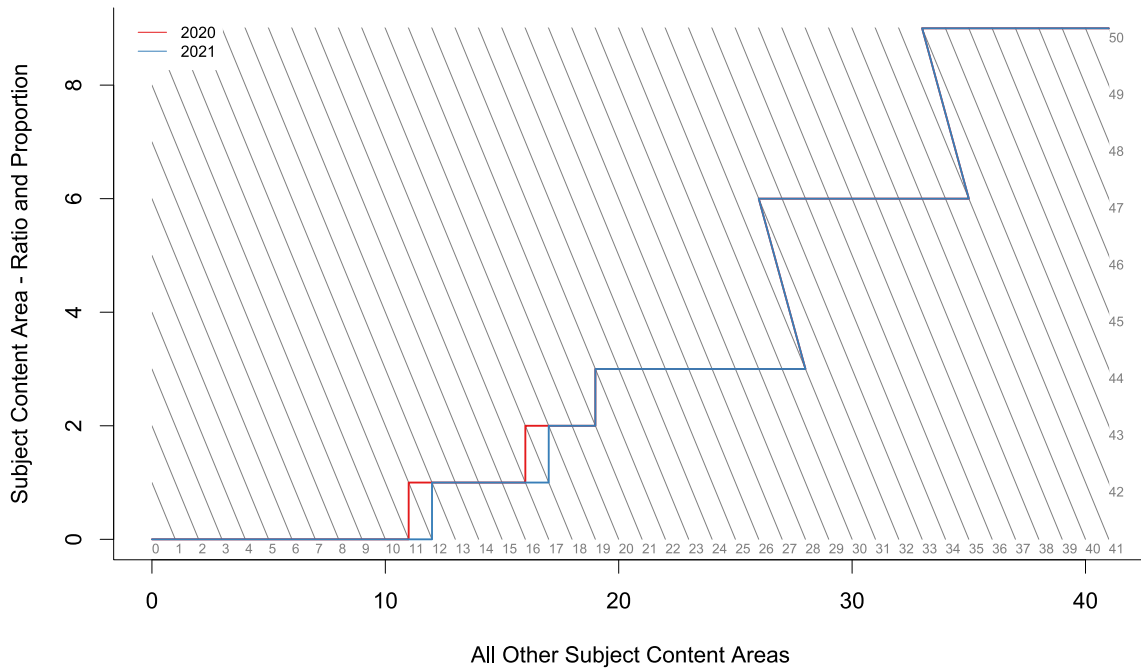
Mathematics Booklet 3 - Ratio and Proportion



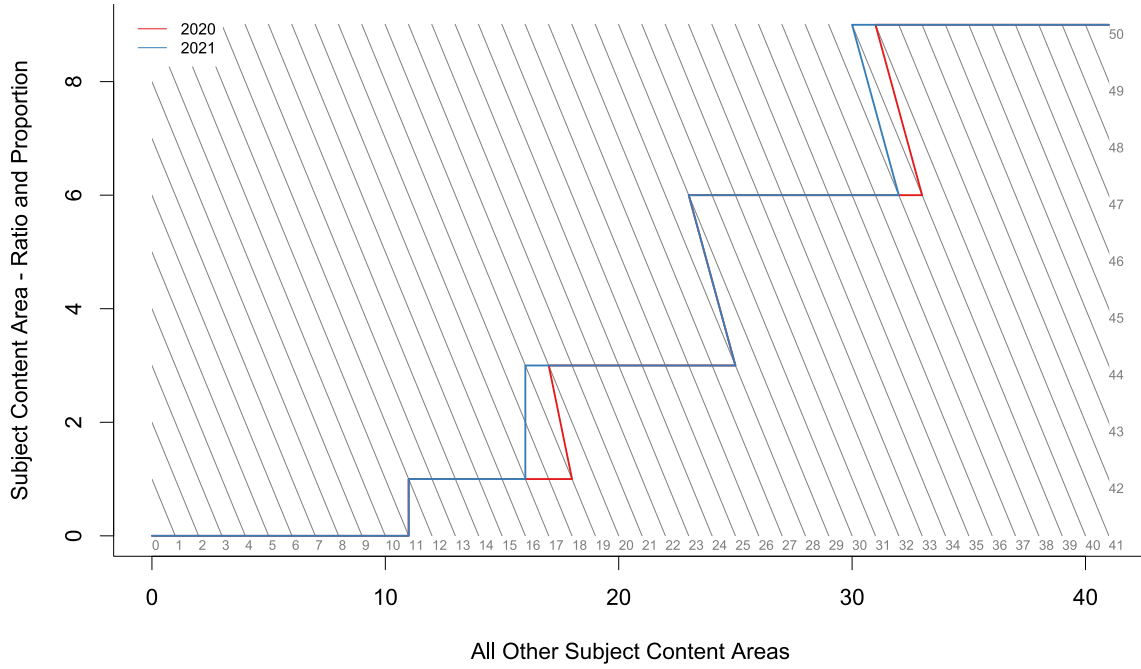
Mathematics Booklet 4 - Ratio and Proportion



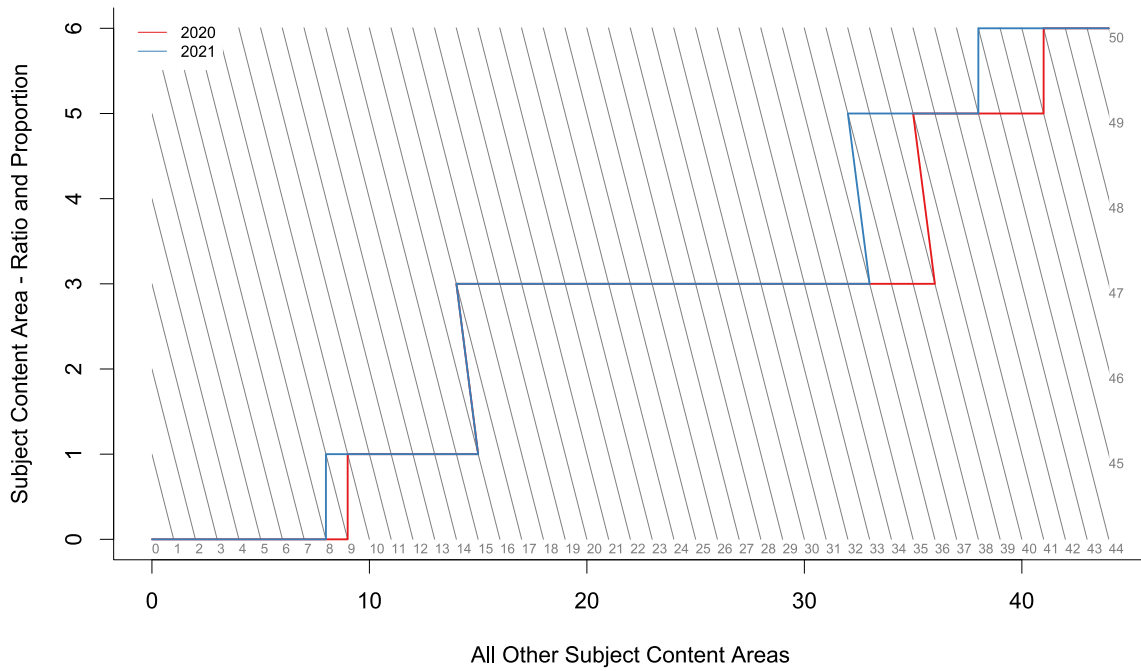
Mathematics Booklet 5 - Ratio and Proportion



Mathematics Booklet 6 - Ratio and Proportion



Mathematics Booklet 7 - Ratio and Proportion



Mathematics Booklet 8 - Ratio and Proportion

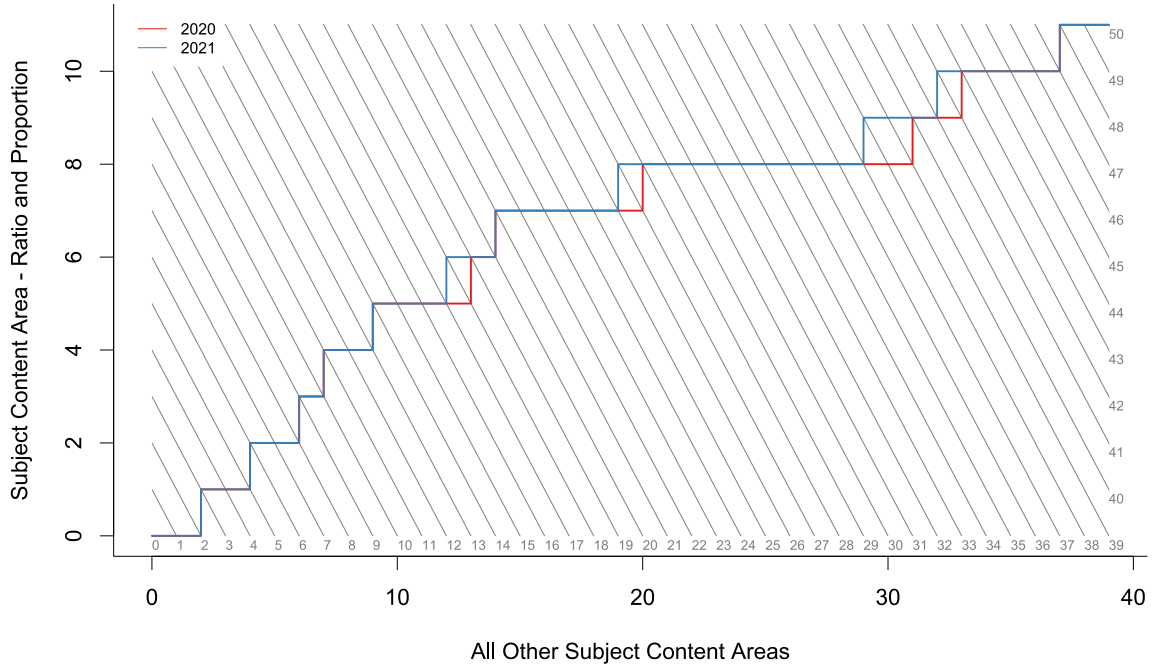
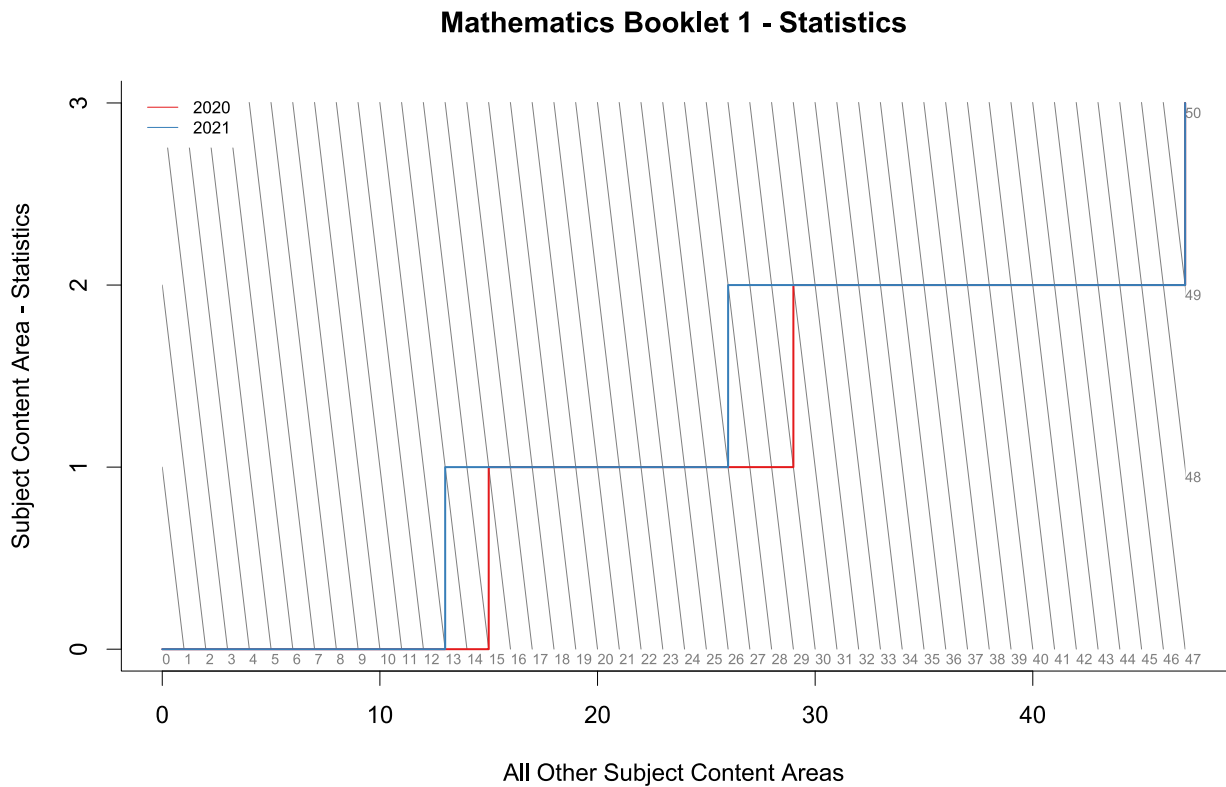
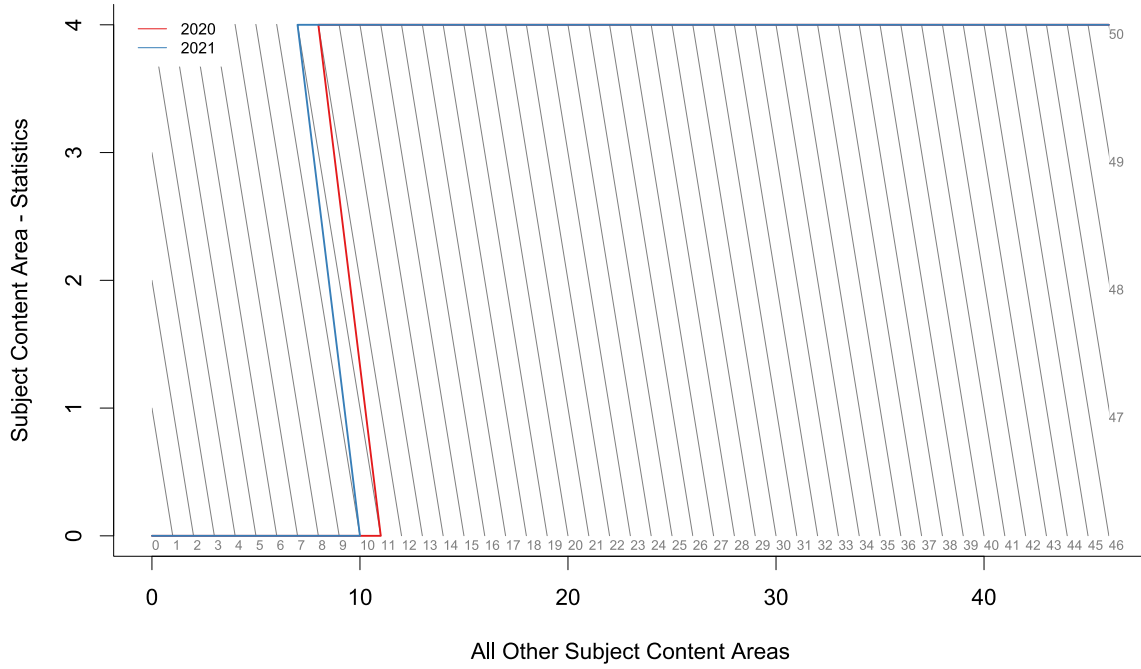


Figure A13 Subject area – statistics (booklets 2 and 3 do not contain any statistics items)

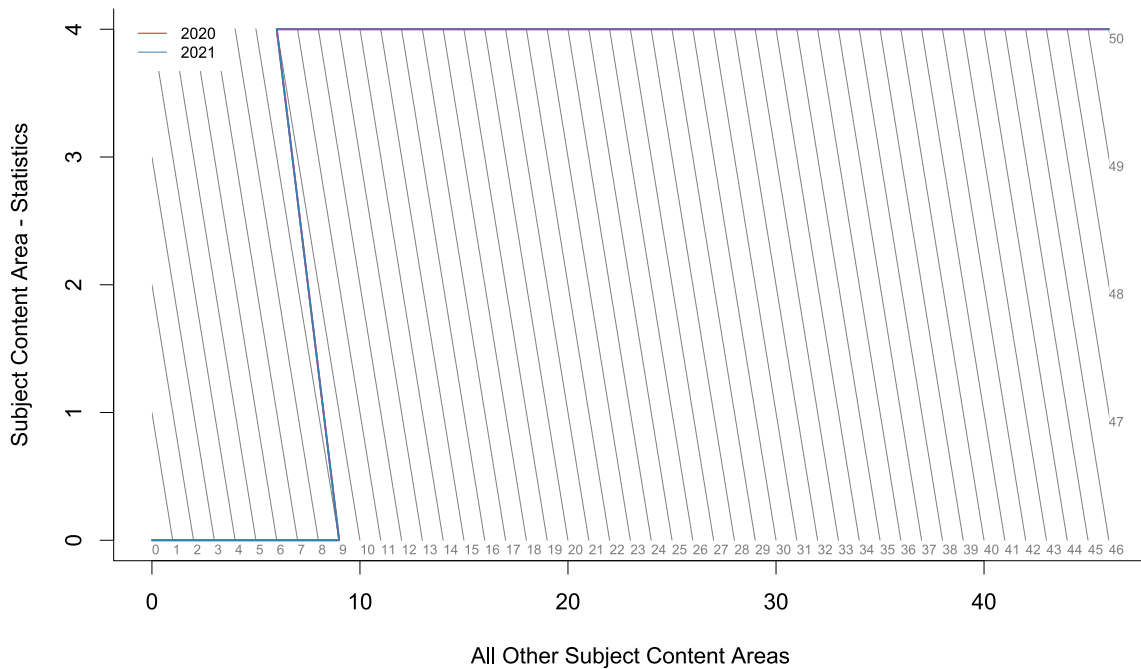
Figure A13 shows profile plots for booklets 1, 4, 5, 6, 7 and 8 showing statistics scores. Each plot maps the scores for statistics against the other subject content areas, with trends shown for the 2020 and 2021 cohorts. There is no evidence of a clear change in performance between 2020 and 2021.



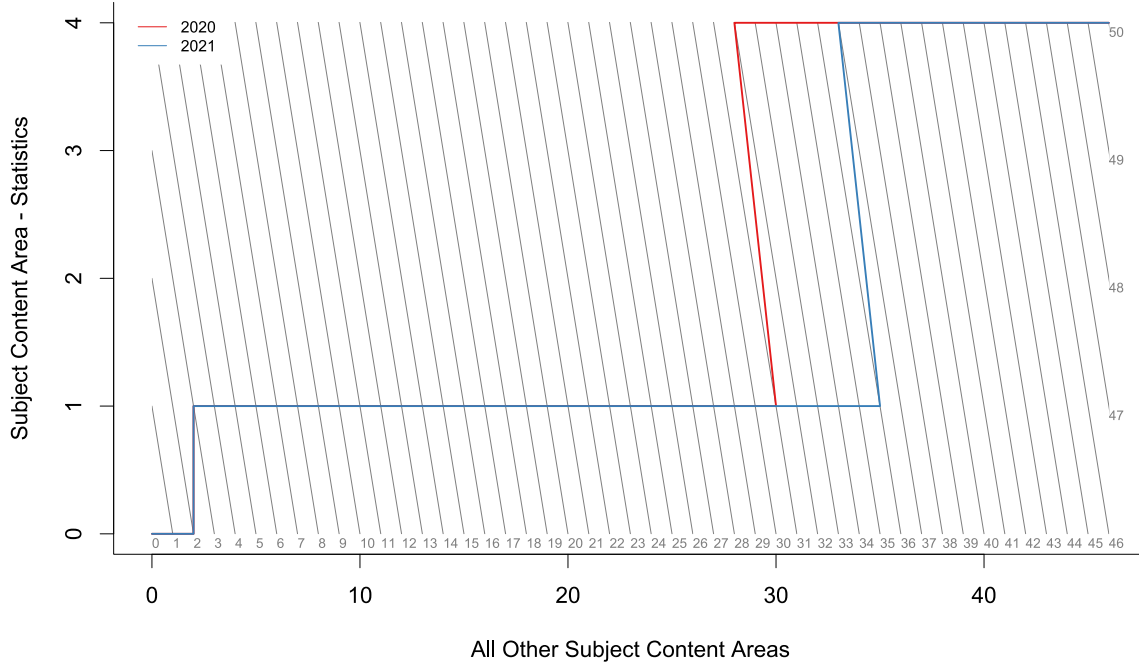
Mathematics Booklet 4 - Statistics



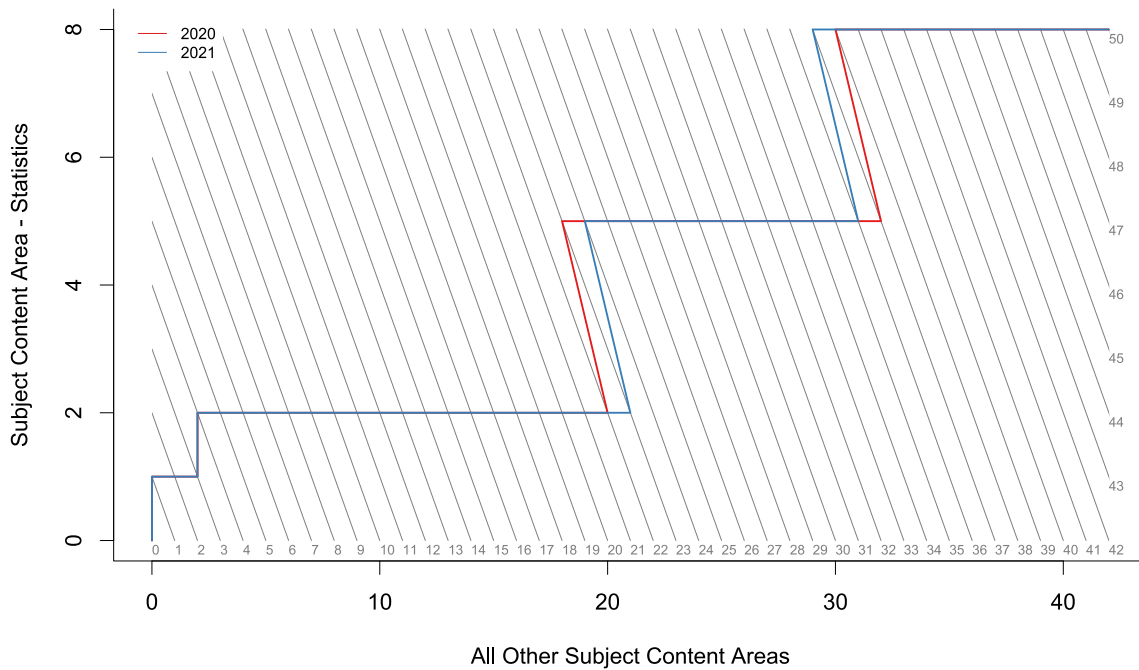
Mathematics Booklet 5 - Statistics



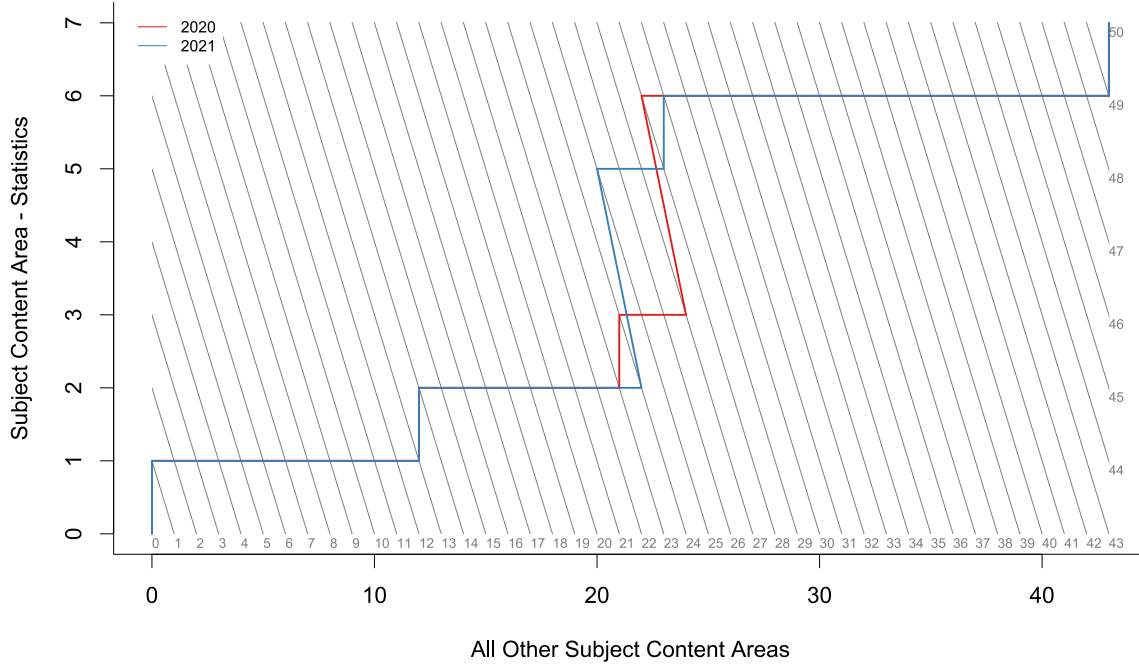
Mathematics Booklet 6 - Statistics



Mathematics Booklet 7 - Statistics



Mathematics Booklet 8 - Statistics



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