**FOUNDATION TIER**

**PAPER 1 – Friday 20th May 2022 (non-calculator)**

**PAPER 2 – Tuesday 7th June 2022 (calculator)**

**PAPER 3 – Monday 13th June 2022 (calculator)**

**How to revise for your maths exams**

Maths is a subject that you can’t just read about it to revise it. You must DO some maths.

Hegarty is perfect for this as it shows you how to do it, provides questions for you to try and then marks your answer. We have provided you with an exercise book for you to use for working out.

**When to revise for your maths exams**

The maths department want you to start following this revision schedule from **Monday 14th March until Saturday 30th April**. This will then allow plenty of time for you to practice exam papers before the exams start.

**What topics to revise**

The topics listed in this document have been provided by the exam board. They WILL be on the exams. We want you to focus on revising these topics.

**Too many things to revise**

You do not need to do all of the tasks for each topic when there are a lot of them, but we recommend you do at least watch all the video clips and attempt some of the tasks.

**RAG**

Each day you should RAG how well you have done overall on each topic. This will allow you to keep track of what you did well on and what you need to work on before the exams.

**What to do after 30th April**

If you follow this schedule you will have covered the topics the exam board has recommended by the end of April.

Your maths revision between then and the last paper should focus on exam-style questions and past exam papers.

Use the links to the free resources below to support with this.

**Exam-style Questions – by topic**

[www.mathsgenie.co.uk/gcse.html](http://www.mathsgenie.co.uk/gcse.html)

**Past papers with solutions (Edexcel are the exam board we use)**

[www.mathsgenie.co.uk/papers.html](http://www.mathsgenie.co.uk/papers.html)

**Number Topics**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Monday 14th March | Money | 743 – 754 |  |  |  |
| Four operations | 18 – 24, 47 – 51, 143 – 146 |  |  |  |
| Tuesday 15th | Negative number | 37 – 44 |  |  |  |
| Order fractions, decimals, percentages | 52, 55, 60, 73 – 76, 82, 83, 149 |  |  |  |
| Wednesday 16th | Fraction of an amount | 77 |  |  |  |
| One amount as a fraction of another | 62 |  |  |  |
| Thursday 17th | Fraction arithmetic | 65 – 70, 80 |  |  |  |
| Equivalent fractions | 59, 61 |  |  |  |
| Friday 18th | Place value | 13, 45 |  |  |  |
| Order integers | 14, 37 |  |  |  |
| Saturday 19th | Multiples | 33 |  |  |  |
| Factors | 27 |  |  |  |
| Sunday 20th | Lowest Common Multiple | 34, 35, 36 |  |  |  |
| Product of prime factors | 29, 30, 32, 35 |  |  |  |
| Monday 21st | Square root | 101 |  |  |  |
| Conversion | 122, 123, 124 |  |  |  |
| Tuesday 22nd | Calculation | 125, 126, 127 |  |  |  |
| Rounding | 17, 56, 130, 133 |  |  |  |
| Wednesday 23rd | Estimation | 131 |  |  |  |
| Error interval | 774 – 777 |  |  |  |
| Thursday 24th | Mathematical symbols | 14 |  |  |  |
| Calculator use | 129 |  |  |  |

**Algebra Topics**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Friday 25th | Simplification | 156 – 159 |  |  |  |
| Expansion of bracket | 160, 161 |  |  |  |
| Saturday 26th | Factorisation | 168 – 171, 223, 224 |  |  |  |
| Substitute values | 155, 278, 780 – 783 |  |  |  |
| Sunday 27th | Change subject of a formula | 280 – 287 |  |  |  |
| Forming an expression | 151, 152, 153 |  |  |  |
| Monday 28th | Laws of indices | 173, 174 |  |  |  |
| Linear equation | 177 – 186, 188, 189 |  |  |  |
| Tuesday 29th | Linear inequality | 265 – 272 |  |  |  |
| Linear simultaneous equations | 190 – 195, 218, 219 |  |  |  |
| Wednesday 30th | Form an equation | 176 |  |  |  |
| Quadratic equation | 230, 234 |  |  |  |

**Algebra (continued)**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Thursday 31st | Coordinates | 199, 200 |  |  |  |
| Straight line graph | 205 – 213 |  |  |  |
| Friday 1st April | Quadratic graph | 251 – 255 |  |  |  |
| Number machines | 176, 177 |  |  |  |
| Linear sequence | 196, 197, 198 |  |  |  |

**Ratio, proportion, and rates of change**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Saturday 2nd | Length, mass, time, area | 692 – 697, 700, 701, 705, 706, 709, 710, 711 |  |  |  |
| Sunday 3rd | Compound units | 724, 731, 737, 738 |  |  |  |
| Scale drawing | 864 – 871 |  |  |  |
| Monday 4th | Percentage to fraction | 82 |  |  |  |
| Decimal to percentage | 55 |  |  |  |
| Tuesday 5th | Percentage of an amount | 84, 85, 86 |  |  |  |
| Percentage increase/decrease | 88, 90, 91, 92, 94, 97, 98 |  |  |  |
| Wednesday 6th | Percentage profit | 760, 761 |  |  |  |
| One quantity as a percentage of another | 62, 76, 97 |  |  |  |
| Thursday 7th | Depreciation | 95 |  |  |  |
| Reverse percentage | 96 |  |  |  |
| Write as a ratio | 328, 329 |  |  |  |
| Friday 8th | Share in a ratio | 332 – 335 |  |  |  |
| Use of ratio | 335 – 338 |  |  |  |
| Saturday 9th | 1 : *n* form | 331 |  |  |  |
| Direct proportion | 339, 340, 341, 343, 344, 345, 348, 739 – 742 |  |  |  |
| Sunday 10th | Currency conversion | 707, 708 |  |  |  |
| Speed | 716 – 724 |  |  |  |
| Monday 11th | Average speed | 722, 876, 877 |  |  |  |
| Density | 725 – 729, 731 |  |  |  |

**Geometry and measures**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Tuesday 12th | Triangle properties | 823 |  |  |  |
| Quadrilaterals | 824, 825, 826 |  |  |  |
| Wednesday 13th | Polygons | 822 – 828 |  |  |  |
| Triangular prism | 829, 830 |  |  |  |
| Circles | 592 |  |  |  |

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| Thursday 14th | Parallel and perpendicular lines | 821 |  |  |  |
| Reflection | 639, 640, 641 |  |  |  |
| Friday 15th | Transformations | 637 – 645, 648 – 654 |  |  |  |
| Plan and elevation | 837 – 844 |  |  |  |
| Saturday 16th | Angles in a triangle | 484 – 491 |  |  |  |
| Vertically opposite angles | 480 |  |  |  |
| Sunday 17th | Angle properties of parallel lines | 481, 482, 483, 490, 491 |  |  |  |
| Angles in a polygon | 560 – 565 |  |  |  |
| Monday 18th | Bearings | 492 – 496, 869 |  |  |  |
| Area of a rectangle | 553, 554, 555 |  |  |  |
| Tuesday 19th | Area of a triangle | 557, 558 |  |  |  |
| Area of a trapezium | 559 |  |  |  |
| Wednesday 20th | Volume of a cube | 568, 569 |  |  |  |
| Volume of a cylinder | 572, 573, 574 |  |  |  |
| Thursday 21st | Pythagoras’s Theorem | 498, 499, 501, 502 |  |  |  |
| Exact trigonometric values | 845 |  |  |  |

**Probability**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Friday 22nd | Probability scale | 349, 350 |  |  |  |
| Probability | 351 – 363  |  |  |  |
| Saturday 23rd | Frequency tree | 368, 369 |  |  |  |
| Tree diagram | 361, 362, 363 |  |  |  |
| Sunday 24th | Combined events | 358, 359, 360 |  |  |  |

**Statistics**

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| **Date** | **Topics** | **Clip Number** | **R** | **A** | **G** |
| Monday 25th | Pictogram | 426 |  |  |  |
| Bar chart | 425 |  |  |  |
| Tuesday 26th | Interpret graph | 425 – 429, 450 – 454 |  |  |  |
| Two-way table | 422, 423, 424 |  |  |  |
| Wednesday 27th | Frequency table | 401, 402, 403 |  |  |  |
| Thursday 28th | Stem and leaf diagram | 430 – 433 |  |  |  |
| Frequency polygon | 441 |  |  |  |
| Friday 29th | Mode, median, mean, range | 404 – 410, 414 – 417, 419, 420  |  |  |  |
| Saturday 30th | Comparison of distributions | 432, 433 |  |  |  |