# Year 10 MATHS Revision – Hegarty Log – Foundation Tier

As revision for your year 10 exams we would like you to select your own Hegarty tasks from those listed below. The list covers all Hegarty clips linked to our year 9, 10 and 11 rolling scheme of work. Please be aware that, depending on maths class, you may not have yet been taught each topic to the depth covered by all the Hegarty clips.

**THIS IS NOT A REVISION LIST** – It is just a guide of topics which might come up in your exams.

**For homework over the next 4 weeks you are expected to complete a minimum of 3 tasks per week from the list below, plus the Memri task. Use might also like to use your Hegarty "Doughnut" to target topics which you have struggled with before.**

**If you prefer, you have the option to refresh lots of different tasks. If you do this please write your score out of the number of questions answered rather than the percentage gained.**
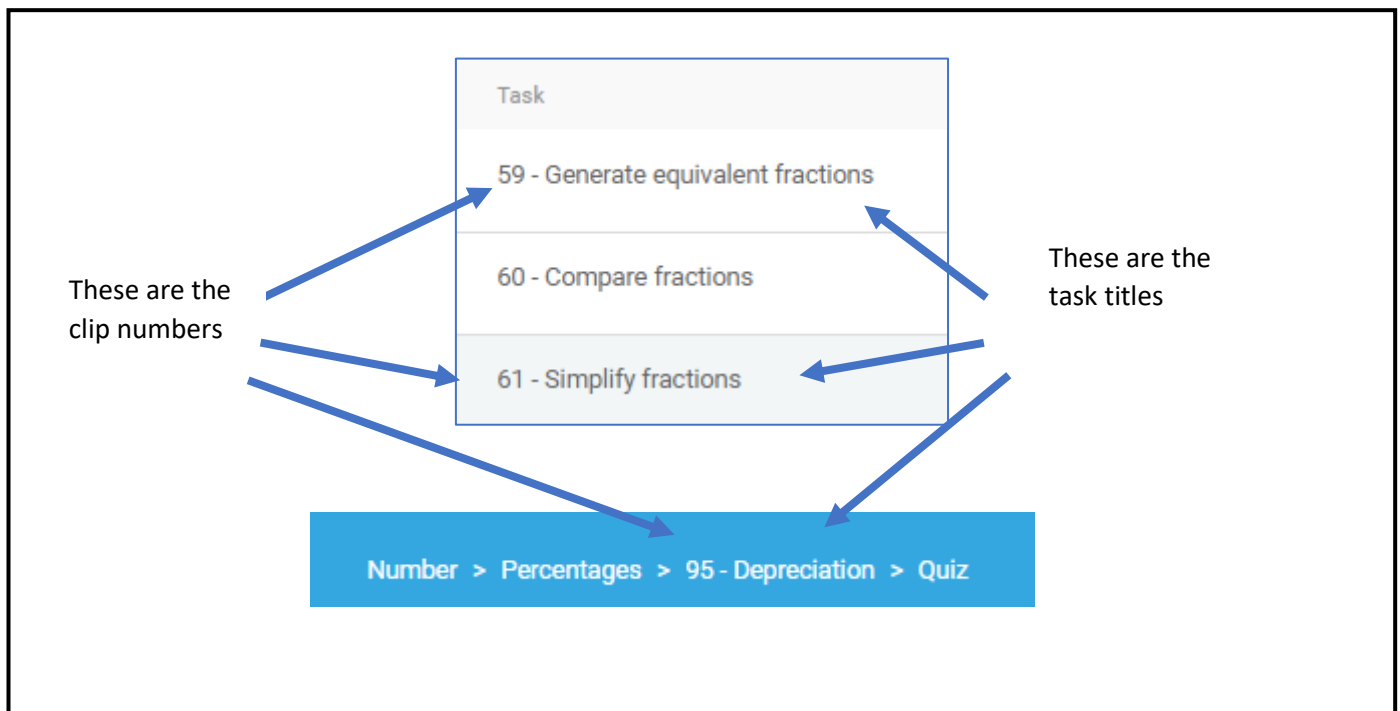
Every week complete a page in this booklet as follows:

- write in the Hegarty task number (also called 'clip number'),

- write in the task title,

- put your score in the appropriate column:

> **R:  0 to 70%**
>
> **A:  70 to 95%**
>
> **G:  95 to 100%**

- write in your Memri score.

**Week 1 (completed by end of 3rd April)**

| Clip number | Clip Title | Score | | | Memri Score |
|---|---|---|---|---|---|
| | | R | A | G | |
| | | | | | |
| | | | | | |
| | | | | | |

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 2 (completed by end of 10th April)**

| Clip number | Clip Title | Score | | | Memri Score |
|---|---|---|---|---|---|
| | | **R** | **A** | **G** | |
| | | | | | |
| | | | | | |
| | | | | | |

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 3 (completed by end of 17th April)**

| Clip number | Clip Title | Score | | | Memri Score |
|---|---|---|---|---|---|
| | | **R** | **A** | **G** | |
| | | | | | |
| | | | | | |
| | | | | | |

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 4 (completed by end of 24th April)**

| Clip number | Clip Title | Score | | | Memri Score |
|---|---|---|---|---|---|
| | | **R** | **A** | **G** | |
| | | | | | |
| | | | | | |
| | | | | | |

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 5 (completed by end of 1ˢᵗ May)**

| Clip number | Clip Title | Score | | | Memri Score |
|---|---|---|---|---|---|
| | | R | A | G | |
| | | | | | |
| | | | | | |
| | | | | | |

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Log in to https://hegartymaths.com/ to access videos and questions**

# Number

| Topics | Clip Number | R | A | G |
|---|---|---|---|---|
| Ordering positive integers | 13, 14 | | | |
| Ordering negative integers | 37 | | | |
| Ordering decimals | 45, 46 | | | |
| Ordering fractions | 60 | | | |
| Addition and subtraction of positive integers | 18, 19, 20 | | | |
| Multiplication and division of positive integers | 21, 22, 23, 144, 145 | | | |
| Addition and subtraction of negative integers | 38, 39, 40, 41 | | | |
| Multiplication and division of negative numbers | 42, 43 | | | |
| Addition and subtraction of decimals | 47 | | | |
| Multiplication and division of decimals | 48, 49, 50, 51, 135, 136 | | | |
| Addition and subtraction of fractions | 65, 66 | | | |
| Multiplication and division of fractions | 67, 68, 69, 70, 71, 72 | | | |
| Place value: multiplying and dividing by 10 | 15, 16 | | | |
| Order of operations | 24, 44, 120, 150 | | | |
| Prime numbers, prime factorisation | 28, 29, 30 | | | |
| Factors, multiples, HCF and LCM | 27, 31, 32, 33, 34, 35, 36 | | | |
| Powers and roots | 99, 100, 101 | | | |
| Using standard form | 121, 122, 123, 124 | | | |
| Calculating with standard form | 125, 126, 127, 128 | | | |
| Converting decimals to/from fractions | 52, 73, 74, 149 | | | |
| Converting percentages to/from fractions | 75, 76, 82, 149 | | | |
| Converting percentages to/from decimals | 55, 83 | | | |
| Simplifying fractions | 59, 61 | | | |
| Mixed numbers and improper fractions | 63, 64 | | | |
| Fractions of amounts | 62, 77 | | | |
| Increasing/decreasing by fractions | 78, 79 | | | |
| Fraction problems | 80 | | | |
| Percentages of amounts | 84, 85, 86, 87 | | | |
| Percentage increase/decrease | 88, 89, 90 | | | |
| Percentage change | 97 | | | |
| Reverse percentages | 96 | | | |
| Simple interest | 93 | | | |
| Percentage problems | 98 | | | |
| Rounding | 17, 56, 134 | | | |
| Rounding to significant figures | 130 | | | |
| Estimating answers | 129, 131, 132, 133 | | | |
| Working with money | 747, 748, 749, 750, 751 | | | |
| Money problems | 752, 753, 754 | | | |
| Financial statements | 757 | | | |
| Income and rates of pay | 755, 756 | | | |
| Profit and loss | 759, 760, 761, 762 | | | |
| Best buys | 763, 764, 765, 766, 767 | | | |

# Algebra

| Topics | Clip Number | R | A | G |
|---|---|---|---|---|
| Algebraic expressions | 151, 152, 153 | | | |
| Collecting like terms | 156, 157 | | | |
| Multiplying and dividing algebra | 158, 159 | | | |
| Substitution | 155, 780, 781 | | | |
| Algebra terminology | 154 | | | |
| Expanding brackets | 160, 161 | | | |
| Factorising expressions | 167, 168, 169, 170, 171 | | | |
| Index laws | 173, 174 | | | |
| Changing the subject | 280, 281, 282, 283, 284 | | | |
| Coordinates | 199 | | | |
| Midpoints | 200 | | | |
| Plotting straight line graphs | 205, 206, 207 | | | |
| Gradient | 201, 202 | | | |
| Distance-time graphs | 874, 875 | | | |
| Sketch quadratic graphs | 251, 257 | | | |
| Linear equations | 176, 177, 178, 179, 180, 181, 182, 183, 188, 189 | | | |
| Linear equations on graphs | 217 | | | |
| Quadratic expressions | 222 | | | |
| Linear sequences | 196, 197, 198 | | | |
| Other sequences | 261 | | | |

# Ratio and proportion

| Topics | Clip Number | R | A | G |
|---|---|---|---|---|
| Scale diagrams | 864, 865, 866, 867, 868, 869 | | | |
| Simplifying ratios | 328, 329, 331 | | | |
| Dividing in a ratio | 332, 333, 334 | | | |
| Fractions and ratio | 330 | | | |
| Direct proportion | 339, 340, 341, 343 | | | |
| Inverse proportion | 342, 346 | | | |
| Proportion graphs | 348 | | | |
| Recipes | 739, 740, 741, 742 | | | |

# Statistics

| Topics | Clip Number | R | A | G |
|---|---|---|---|---|
| Collecting data, frequency tables | 401, 402, 403 | | | |
| Two-way tables | 422, 423, 424 | | | |
| Bar charts | 425 | | | |
| Pictograms | 426 | | | |
| Pie charts | 427, 428, 429 | | | |
| Stem and leaf diagrams | 430, 431, 432, 433 | | | |
| Mode | 404, 415 | | | |
| Mean | 405, 406, 407, 408, 417 | | | |
| Median | 409, 416 | | | |
| Range | 410, 414 | | | |
| Choosing averages | 413 | | | |
| Averages problems | 419, 420 | | | |
| Scatter graphs | 453, 454 | | | |

# Geometry and measures

| Topics | Clip Number | R | A | G |
|---|---|---|---|---|
| Geometric notation | 456 | | | |
| Points and lines | 821 | | | |
| Properties of 2D shapes | 822, 823, 824, 825, 826, 827, 828 | | | |
| Angle on a line | 477, 478 | | | |
| Complementary angles | 815 | | | |
| Angles around a point | 812, 813, 814, 479, 480 | | | |
| Angles on parallel lines | 481, 482, 483 | | | |
| Angles in a triangle | 484, 485, 486, 487 | | | |
| Angles in polygons | 560, 561, 562, 563, 564 | | | |
| Translations | 637, 638 | | | |
| Reflections | 639, 640, 641 | | | |
| Enlargements | 642, 643 | | | |
| Rotations | 648, 649 | | | |
| Describing transformations | 650, 651, 652, 653, 654 | | | |
| Congruence | 680, 681 | | | |
| Properties of 3D shapes | 829, 830, 831, 832 | | | |
| Nets of 3D shapes | 833, 834, 835, 836 | | | |
| Metric units | 691 | | | |
| Units of measure: Length | 692, 693, 694 | | | |
| Units of measure: Mass | 695, 696, 697 | | | |
| Units of measure: Volume/capacity | 698, 699, 702, 703, 704 | | | |
| Units of measure: Time | 709, 710, 711 | | | |
| Units of measure: Area | 700, 701 | | | |
| Imperial units | 705, 706 | | | |
| Currency conversion | 707, 708 | | | |
| Conversion graphs | 712, 713 | | | |
| Compound units: Speed | 716, 717, 718, 719, 720, 724 | | | |
| Angles: Recognising and Estimating | 455, 457 | | | |
| Angles: Measuring and Drawing | 458, 459, 460, 461 | | | |
| Bearings | 492, 493, 494, 495 | | | |
| Calculating perimeter | 549, 550, 551, 552 | | | |
| Calculating area | 554, 555, 556, 557, 558, 559 | | | |
| Circles | 592 | | | |
| Circumference | 534, 535, 536 | | | |
| Circle area | 539, 540, 541 | | | |
| Surface area | 584, 585, 586 | | | |
| Volume of cuboids | 568, 569 | | | |
| Volume of prisms and cylinders | 570, 571, 572, 573, 574, 575 | | | |
| Similar shapes | 608, 609, 610, 611 | | | |

# Probability

| Topics | Clip Number | R | A | G |
|---|---|---|---|---|
| Probability scale | 349, 350 | | | |
| Probability of single events | 351, 352, 353, 354 | | | |
| Experimental probability | 355, 356 | | | |
| Multiple event probability | 358, 359, 360 | | | |
| Listing elements in a set | 370, 371 | | | |
| Venn diagrams | 372, 373, 374, 375, 376, 377, 378, 379, 380 | | | |
| Probability from Venn diagrams | 383, 384 | | | |
| Frequency trees | 368, 369 | | | |
| Listing systematically | 670 | | | |