

Class of 2025 (Higher) Mathematics

Long Term Plan 2021-22



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
	W/C 30/08	W/C 06/09	W/C 13/09	W/C 20/09	W/C 27/09	W/C 04/10	W/C 11/10	W/C 01/11	W/C 08/11	W/C 15/11	W/C 22/11	W/C 29/11	W/C 06/12
Cycle 1		Sequences Sequences Nth term of linear and quadratic sequences	Graphs Plotting straight line graphs Vertical and horizontal graphs Gradient and intercept $y=mx+c$	Graphs Finding the equation of a line given coordinates	Graphs Parallel and perpendicular lines	Graphs Simultaneous equations – solve graphically	Compound Measures Speed Density Pressure	Graphs Distance time graphs Real life graphs	Graphs Distance time graphs Real life graphs	Quadratics Factorising Solving $a=1$ and $a>1$	Quadratics Using the formula Completing the square	Quadratics Solve by completing the square Algebraic Fractions	Iteration Show a root is between points Rearrange and solve
		Remote Task: 196-197, 263, 247 - 250 Resources: https://hegarty.maths.com/	Remote Task: 201, 202, 203, 204, 205, 206, 207 and 208 Resources: https://hegarty.maths.com/	Remote Task: 209, 210, 211, 212 and 213 Resources: https://hegarty.maths.com/	Remote Task: 214, 215 and 216 Resources: https://hegarty.maths.com/	Remote Task: 218 and 219 Resources: https://hegarty.maths.com/	Remote Task: 711, 716, - 737 Resources: https://hegarty.maths.com/	Remote Task: 874 -886, Resources: https://hegarty.maths.com/	Remote Task: 894 -897 Resources: https://hegarty.maths.com/	Remote Task: 223-228 Resources: https://hegarty.maths.com/	Remote Task: 230-234, 235-237 Resources: https://hegarty.maths.com/	Remote Task: 238-239, 187, 229 and 244 Resources: https://hegarty.maths.com/	Remote Task: 332 Resources: https://hegarty.maths.com/
Cycle 2	W/C 13/12	W/C 03/01	W/C 10/01	W/C 17/01	W/C 24/01	W/C 31/01	W/C 07/02	W/C 14/02	W/C 28/02	W/C 07/03	W/C 14/03	W/C 21/03	W/C 28/03
	Inequalities Solving Linear Solving Quadratic graphing	Proportional reasoning and ratio Ratio problems Algebra and ratio	Proportional reasoning and ratio Ratio problems Algebra and ratio	Proportional reasoning and ratio Direct proportion Inverse proportion	Proportional reasoning and ratio Direct proportion Inverse proportion	Circle theorems Cyclic quadrilaterals Angles at the circumference and centre	Circle theorems Angles at the circumference Alternate Sector Theorem	Circle theorems Angles at the circumference Alternate Sector Theorem	Circles Proof of circle theorems Drawing a radii	Volume Cones Spheres Frustums	Surface Area Cones Spheres Frustums	Surds Simplifying surds Expanding brackets Rationalising denominators	Surds Simplifying surds Expanding brackets Rationalising denominators
	Remote Task: 246, 259 and 260 Resources: https://hegarty.maths.com/	Remote Task: 328 -234 Resources: https://hegarty.maths.com/	Remote Task: 335-338 Resources: https://hegarty.maths.com/	Remote Task: 339-341, 325-327 Resources: https://hegarty.maths.com/	Remote Task: 342, 346 and 347 Resources: https://hegarty.maths.com/	Remote Task: 594, 595, 596 and 597 Resources: https://hegarty.maths.com/	Remote Task: 598, 599, 601, 602, 605, 606 and 607 Resources: https://hegarty.maths.com/	Remote Task: 603, 816, and 817 Resources: https://hegarty.maths.com/	Remote Task: 818, 819 and 820 Resources: https://hegarty.maths.com/	Remote Task: 571, 576, 577, 580, 581 Resources: https://hegarty.maths.com/	Remote Task: 588, 587, and 578 Resources: https://hegarty.maths.com/	Remote Task: 111, 112, 113, 114 and 115, Resources: https://hegarty.maths.com/	Remote Task: 116, 117, 118 and 119 Resources: https://hegarty.maths.com/

Cycle 3

	W/C 04/04	W/C 25/04	W/C 02/05	W/C 09/05	W/C 16/05	W/C 23/05	W/C 06/06	W/C 13/06	W/C 20/06	W/C 27/06	W/C 04/07	W/C 11/07	W/C 18/07
Standard form	Indices	Trigonometry	Trigonometry	Trigonometry	Trigonometry	Trigonometry	Transformations,	Transformations,	Transformations,	Similarity & congruence	Similarity & congruence	Set notation & venn diagrams	Set notation & venn diagrams
Converting Adding and subtracting Multiplying and dividing	Fractional Negative Problem Solving	SOHCAHTOA Missing sides Missing angles	Sine Rule Cosine Rule	Area of a triangle Problem solving	3D Trigonometry Exact Values Graphs	Reflect Rotate Translate	Enlargements	Combined transformations	congruence, similarity	congruence, similarity	Probability Algebra Venn diagrams	Probability Algebra Venn diagrams	
Remote Task: 122, 123, 124, 125, 126, 127 and 128 Resources: https://hegarty.maths.com/	Remote Task: 102, 103, 104, 105, 106, 107, 108, 109 and 110 Resources: https://hegarty.maths.com/	Remote Task: 508, 509, 510, 51, 512, 513, 514 and 515 Resources: https://hegarty.maths.com/	Remote Task: 521, 522, 523, 524, 525, 527, 528, 529 and 530 Resources: https://hegarty.maths.com/	Remote Task: 517, 518, 531, 532, and 533 Resources: https://hegarty.maths.com/	Remote Task: 303, 305, 306 and 854 – 863 Resources: https://hegarty.maths.com/	Remote Task: Skill numbers 637, 638, 639, 640, 641, 648 and 649 Resources: https://hegarty.maths.com/	Remote Task: Skill numbers 642, 643, 644, 645, 646, 647, 650, and 655 Resources: https://hegarty.maths.com/	Remote Task: Skill numbers 656, 657 and 658 Resources: https://hegarty.maths.com/	Remote Task: 680, 681, 682, 608, 609, 610, 611, 612, 613 and 614, Resources: https://hegarty.maths.com/	Remote Task: 615, 616, 617, 618, 619, 620, and 621 Resources: https://hegarty.maths.com/	Remote Task: 372, 373, 374, 375, 376, 377, 378 and 379 Resources: https://hegarty.maths.com/	Remote Task: 380, 381, 382, 383, 384, 385, 386 Resources: https://hegarty.maths.com/	