

Date	Wk	Week	Units Studied & Learning Outcomes
2-Sep	A	1	Basic Algebra Skills (6) <u>Unit Learning Outcomes</u> GW: Manipulate simple expressions and equations BI: Manipulate quadratic expressions and equations EW: Manipulate equations when given in more complex questions.
9-Sep	B	2	
16-Sep*	A	3	Surds (4) <u>Unit Learning Outcomes</u> GW: Simplify surds using multiplication/division laws BI: Simplify surds including expanding brackets EW: Rationalise denominators
23-Sep	B	4	Transformations (4) <u>Unit Learning Outcomes</u> GW: Transform shapes given an instruction BI: Describe transformations EW: Use negative scale factors for enlargement
		RQ (PM lesson)	
30-Sep	A	5	Comparing ratio (3) <u>Unit Learning Outcomes</u> GW: Understand ratio BI: Combine two ratios EW: Solve multi-ratio problems
7-Oct	B	6	Linear graphs, Gradient and intercept method, $ay+bx=c$ use of cover-up method (4) <u>Unit Learning Outcomes</u> GW: Draw and interpret linear graphs BI: Find $y=mx+c$ from two coordinates, midpoints EW: Parallel/perpendicular lines
14-Oct	A	7	Percentage increase/decrease, Compound interest/Repeated percentage change, Reverse percentage, Percentage profit and loss (4) <u>Unit Learning Outcomes</u> GW: Percentage Increase/ decrease using calc and non calc methods. Profit/loss. BI: Calculator methods for compound Interest and repeated percentage change EW: Reverse percentage using calc/non calc
21-Oct	B	8	Probability Use of Key words, Combined events, Tree diagrams, Venn diagram set notation (4) <u>Unit Learning Outcomes</u> GW: Find Probability from tables BI: Represent outcomes in diagrams, to find probabilities. EW: Solve problems, inc conditional probability.

4-Nov	A	9	Product of Primes, Linear and quadratic sequences (4) <u>Unit Learning Outcomes</u> GW: Express a number as a product of prime factors. BI: Generate sequences and find nth term. EW: Solve problems involving HCF/LCM or sequences.
11-Nov	B	10 RQ (PM lesson)	Index Notation, Standard form Rational numbers, Irrational numbers (4) <u>Unit Learning Outcomes</u> GW: Understand and use numbers in standard form BI: Apply Laws of Indices EW: Convert recurring fractions/decimals.
18-Nov	A	11	Solve Quadratic Equations graphically (4) <u>Unit Learning Outcomes</u> GW: Draw quadratic graphs BI: Draw an appropriate straight line to on a quadratic graph to solve an equation EW: Solve simultaneous equations graphically, where one is a quadratic.
25-Nov	B	12	Averages and Range (4) <u>Unit Learning Outcomes</u> GW: Calculate averages from tables BI: Estimate the mean/median from tables. EW: Solve problems involving averages.
2-Dec	A	13	Recall and in- class formative assessment & feedback. (3 lessons)
9-Dec		14	Right angles triangles. (5) <u>Unit Learning Outcomes</u> GW: Use Pythagoras Theorem BI: Use Trig in right angled triangles. EW: Solve problems involving Pythagoras and Trigonometry.
16-Dec	A	15	Rates of change, area under a curve, trapezium rule (4) <u>Unit Learning Outcomes</u> GW: Calculate speed, distance, time BI: Find area under graphs to find distance, and gradients to find rate of change. EW: Use trapeziums to estimate are under curves, and tangents to estimate gradient.

6-Jan	B	16	<p>Congruence and Similarity (4) <u>Unit Learning Outcomes</u> GW: Recognise congruent shapes, and use similarity to find missing lengths. BI: Use similarity in 2D and 3D shapes; area/volume. EW: Prove two triangles are congruent.</p>			
13-Jan	A	17 RQ (PM lesson)	<p>Sine and Cosine non right angled triangles (6) <u>Unit Learning Outcomes</u> GW: Apply Sine/Cosine Rules BI: Rearrange Sine/Cosine rule to solve problems. EW: Solve multi-step problems involving sine and cosine.</p>			
20-Jan	B	18				
27-Jan	A	19	<p>Equations of circles (5) <u>Unit Learning Outcomes</u> GW: Write the equation when given a circle, identifying the radius and centre. BI: Find the equation of a tangent to a circle. EW: Solve problems involving circles/tangents.</p>			
3-Feb	B	20 RQ (PM lesson)	<p>Area and Volume of Similar Figures, Dimensional Analysis, Density, Mass, Pressure (4) <u>Unit Learning Outcomes</u> GW Recognise and draw plans and elevations of 3d shapes. BI: Solve problems involving dimensional analysis EW: Solve problems involving dimensional analysis, involving similar shapes</p>			
10-Feb	A	21	<p>Cumulative Frequency, Histograms, Frequency Diagrams Box plots (4) <u>Unit Learning Outcomes</u> GW Draw and interpret data diagrams BI: Draw and interpret Histograms EW: Compare data from two forms</p>			
25-Feb (extend into following week)	B	22	<p>Completing the square, quadratic formula, factorising with a coefficient of x^2. (6) <u>Unit Learning Outcomes</u> GW Factorise a quadratic equation BI: Solve quadratic equations using different methods EW: Solve problems involving quadratics</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Prior</td> <td style="width: 33%;">Current</td> <td style="width: 33%;">Next</td> </tr> </table>	Prior	Current	Next
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3-Mar	A	23 RQ (PM lesson)	<p>Area and Circumference, Volume and Surface Area (6) <u>Unit Learning Outcomes</u> GW Find area and perimeter of sectors BI: Find Volume/ Surface area of 3d shapes EW: Solve problems using circle geometry</p>			
10-Mar	B	24				

17-Mar	A	25	<u>Loci, angles in polygons (4)</u> <u>Unit Learning Outcomes</u> GW Draw basic constructions BI: Draw locus of points. EW: Use multiple constructions to solve Loci problems
24-Mar	B	26 RQ (PM lesson)	<u>Algebraic Fractions (4)</u> <u>Unit Learning Outcomes</u> GW Simplify algebraic fractions BI: Use four operations with algebraic fractions EW: Solve algebraic fractions
31-Mar	A	ST1	<u>Revision, focus on topics using the department template.</u>
22-Apr	B	ST1	<u>Revision, focus on topics using the department template.</u>
28-Apr	A	ST1	<u>Revision, focus on topics using the department template.</u>
5-May	B	30	<u>EBI TO EXAMS (3)</u>
12-May	A	31	<u>Algebraic Fractions continued (4)</u> <u>Unit Learning Outcomes</u> GW Simplify algebraic fractions BI: Use four operations with algebraic fractions EW: Solve algebraic fractions
19-May	B	32	<u>Recall & PinPoint Learning Feedback (3)</u>
2-Jun	A	33	<u>Kinematics Formulae (3)</u> <u>Unit Learning Outcomes</u> GW Substitute into Kinematic Formulae BI: Rearrange Formulae to find $s/u/v/a/t$ EW: Solve problems involving Kinematics
9-Jun	B	34	<u>Error Bounds (4)</u> <u>Unit Learning Outcomes</u> GW Find upper/lower bounds. BI: Write error bounds as an inequality. EW: Solve problems involving error bounds.
16-Jun	A	35 RQ (PM lesson)	<u>Simultaneous equations, quadratic simultaneous equations(6)</u> <u>Unit Learning Outcomes</u> GW Solve Linear simultaneous equations BI: Solve simultaneous equations, where one is non-linear. EW: Solve problems involving simultaneous equations.
23-Jun	B A	36	<u>Circle Theorems (6)</u> <u>Unit Learning Outcomes</u> GW Identify basic circle theorems BI: Combine circle theorems and other angle facts EW: Use circle theorems for proofs
30-Jun		37	

7-Jul	B	38 RQ (PM in lesson)	Translating graphs <u>Unit Learning Outcomes</u> GW Find upper/lower bounds. BI: Write error bounds as an inequality. EW: Solve problems involving error bounds.
14-Jul	A	39	Y11 Preparation

* Bank Holidays