

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught.
What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

Year 10 Overview 2023-24 – Maths Higher			
Date	W k	Week	Units Studied & Learning Outcomes
8 weeks (29 Lessons) (38 Days)			
Tues 5-Sep & 11-Sep	A & B	1 & 2	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.
18-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.
25-Sep	B	4 RQ (PM lesson)	Transformations (4) <u>Unit Learning Outcomes</u> GW: Transform shapes given an instruction. BI: Describe transformations EW: Use negative scale factors for enlargement.
2-Oct	A	5	Comparing ratio (3) <u>Unit Learning Outcomes</u> GW: Understand ratio. BI: Combine two ratios EW: Solve multi-ratio problems
9-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
16-Oct	A	7 RQ (PM lesson)	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.
23-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, including conditional probability.
Half-Term 7 weeks (27 lessons) (34 Days)			
6-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.

13-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.
20-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.
27-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.
4-Dec	A	ST1	Revision, focus on topics using the TCHSL template. 3 topics per lesson on purple paper. Structured revision PowerPoints using department template.
11-Dec		ST1	Revision, focus on topics using the TCHSL template. 3 topics per lesson on purple paper. Structured revision PowerPoints using department template.
18-Dec	A	15	EBI TO EXAMS (3)
Christmas Holiday		6 weeks (24 lessons) (30 Days)	
8-Jan	B	16	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.

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15-Jan	A	17 RQ (PM lesson)	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 area under curves, and tangents to estimate gradient.
22-Jan	B	18	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.
29-Jan	A	19	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.
5-Feb	B	20 RQ (PM lesson)	
12-Feb	A	21	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.
Half-Term			5 weeks (20 lessons) (25 Days)
26-Feb	B	22	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.
4-Mar	A	23 RQ (PM lesson)	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.
11-Mar	B	24	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.
18-Mar	A	25	
25-Mar	B	26 RQ (PM lesson)	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.
Easter Holiday ^{6,7}			6 weeks (24 lessons) (29 Days)
15-Apr	A	27	Loci, angles in polygons (4) <u>Unit Learning Outcomes</u> GW Draw basic constructions BI: Draw locus of points. EW: Use multiple constructions to solve Loci problems.
22-Apr	B	28	Algebraic Fractions (7) <u>Unit Learning Outcomes</u> GW Simplify algebraic fractions
29-Apr	A	29	

		RQ (PM lesson)	BI: Use four operations with algebraic fractions EW: Solve algebraic fractions
6-May	B	30	Error Bounds (4) <u>Unit Learning Outcomes</u> GW Find upper/lower bounds. BI: Write error bounds as an inequality. EW: Solve problems involving error bounds.
13-May	A	31	Simultaneous equations, quadratic simultaneous equations(6) <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.
20-May	B	ST2	Revision, focus on topics using the TCHSL template. 3 topics per lesson on purple paper. Structured revision PowerPoints using department template.
3-Jun	A	ST2	Revision, focus on topics using the TCHSL template. 3 topics per lesson on purple paper. Structured revision PowerPoints using department template.
10-Jun	B	ST2	Revision, focus on topics using the TCHSL template. 3 topics per lesson on purple paper. Structured revision PowerPoints using department template.
17-Jun	A	35	EBI TO EXAMS (3)
24-Jun 1-Jul	B A	36 & 37 RQ (PM lesson)	Circle Theorems (6) <u>Unit Learning Outcomes</u> GW Identify basic circle theorems. BI: Combine circle theorems and other angle facts EW: Use circle theorems for proofs
8-Jul	B	38	Translating graphs <u>Unit Learning Outcomes</u> GW Perform Translations of graphs. BI: Perform Reflections of graphs. EW: Identify and describe transformations of graphs.
15-Jul	A	39	Y11 Preparation Recall tasks. Revision clocks, SSDD and relays, MathsWatch Target weaknesses identified from ST2.
(Total: 190 Days)			

* Bank Holidays

Overview of Year 10	
Based on your Flight Path (E.g. Targets 1L – 4L)	By the end of Year 8, students will have learned
GW: (E.g. Grade 1)	Details of what content students should have learned; skills acquired; connections they might within and across subject(s). E.g. Students can demonstrate ...
BI: (E.g. Grades 2-3M)	Students can recognise
EW: (E.g. Grades 3U-4L)	Students can understand information from a variety

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Prompt Questions

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Please revisit the prompts from last year:

- What are the Key concepts for this unit?
- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE and exam skills?
- Known misconceptions?
- What is it intended students will have learned?
 - For each Unit? By the end of the Year?
 - GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- **Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?**
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)