

Curriculum Map 2023-24

Year 10

Half term	Unit title with hyperlink to scheme of work	Unit summary	Skills & content covered	Skills & content revisited	Summary of formative marking, feedback and student response	Summative assessment schedule, including assessment criteria
Autumn 1	Powers and roots	Number properties including factors, multiples, powers and roots, and extending to indices and surds.	Dependent on group.	Prime factorisation HCF and LCM Standard form Simple index laws	Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework.	
	Sequences, functions and graphs	Finding and using nth term rules, making links to linear functions and their graphs. Using $y=mx+c$ and extending to simultaneous equations and functions.		Nth term - linear sequences Linear graphs		
	Ratio and decimals	Calculating with decimals, standard form and problem solving with ratio, extending to bounds and similar shapes.		Rounding Decimal calculation Ratio		
Autumn 2	Mensuration and calculation	Use of formulae to calculate area and volume of a range of 2D and 3D shapes, extending to working algebraically.	Dependent on group.	Area of 2D shapes Volume of simple prisms	Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework.	Assessment for PC1
	Probability	Use a range of diagrams and calculations to deepen understanding of probability, extending to working algebraically.		Probability of single events Probability of combined events		
	Expressions and equations	Manipulating algebraic expressions and solving equations and inequalities, extending to simultaneous equations and quadratics.		Creating and simplifying expressions Expanding and factorising Solving simple equations		
Spring 1	Angles, shapes and trigonometry	Use of angle facts, Pythagoras theorem and trigonometry to find missing angles and lengths in triangles and shapes made from triangles, extending to advanced trigonometry.	Dependent on group.	Simple angle facts - angles in triangle, quadrilateral, on straight line, vertically opposite. Angles in polygons. Squares and square roots.	Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework.	
	Quadratics and other curves	Plotting graphs of curves and identifying key features of these graphs, extending to solving quadratic equations using a range of methods.		Coordinates Plotting from table of values		
Spring 2	Fractions, decimals and percentages	Calculating with fractions and percentages - with and without calculators, extending to reverse %, compound % change and converting recurring decimals to fractions.	Dependent on group.	4 operations with fractions Fraction and % of a number Simple % change	Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework.	Assessment for PC2
	Relationships, graphs and rates of change	Working with compound measures - speed, density and pressure and solving proportion problems, extending to formal use of proportion equations. Distance - time graphs and velocity - time graphs, extending to average and instantaneous rates of change.		Proportional reasoning Science curriculum		
Summer 1	Handling data	Working with summary statistics and comparing data sets. Displaying and interpreting data using a range of diagrams eg. pie charts, frequency polygons, stem and leaf diagrams, leading to cumulative frequency and histograms.	Dependent on group.	Visual representations of data. Use of averages and range.	Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework.	
	Angles and construction	Scale drawings and constructing shapes and loci using rulers, protractors and compasses. Bearings and angles leading to circle theorems.		Use of mathematical equipment. Angles		
Summer 2	Transformations and vectors	Transformations - reflection, rotation, enlargement and translation. Working with column vectors, extending to geometry problems with vectors and proof.	Dependent on group.	Symmetry Simple transformations	Exit ticket at end of unit - marking informs planning. Sparx Insights informs whole class feedback on homework.	End of year assessment - 3 papers