

Curriculum Map Subject Maths Year 8

Unit	Summary	Skills (This is not an exhaustive list)	Assessment	British Values and SMSC	Career links	Cross-curricular links
Proportional reasoning	Ratio and scale Multiplicative change Multiplying and dividing fractions	Use ratio notation and solve ratio problems Use scale factors, convert between currencies and draw and interpret scale diagrams and maps. Multiply and divide a fraction by an integer/fraction. Understand and use a reciprocal.	Reviews at the end of each block. Term 1 – Numeracy assessment. Term 3 – Assessment on the Autumn term content.	D of E award Politics. Brexit. Euros. Currencies around the world. Economy.	Hairdressers. Economist. Travel exchange. Travel agents.	Science – with atoms and molecules Dof E
Representations	Working in the Cartesian plane Representing data Tables and probability	Plot and interpret straight line graphs using the equations of straight lines. Model situations by translating them into expressions, formulae and graphs. Draw and interpret scatter diagrams. List outcomes using sample space diagrams. Find probabilities.	Term 5 – Assessment on the Spring term content. Term 6 – Numeracy assessment.	Modelling pandemic – analysis. Prime minister and politics. Rule of law.	Statistical analysis. Forensic scientist. Prime minister.	Science – plotting accurate graphs
Algebraic techniques	Brackets, equations and inequalities Sequences Indices	Expand and factorise into single brackets. Form and solve equations and inequalities. Generate sequences using more complex rules. Understand and use the addition and subtraction rules.		Efficiency – modelling.	Business person.	Science – using formulae.

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Developing number	Fractions and percentages	Evaluate percentage increases and decreases. Use multipliers to solve percentage problems.		The wonder of the universe/planets. Size of the smallest and largest living creatures and plants.	Retail, sale items Estimation – retail Member of parliament.	
	Standard index form	Convert between ordinary and standard form. Calculate with and without a calculator.		Decimalisation. Why?		Science – measure and comparisons.
	Number sense	Convert between metric measures and units.		What were the limitations of Imperial measurements? Curiosity – what were the imperial measurements		Science – experiment accuracy PE – measuring distances
Developing geometry	Angles in parallel lines and polygons	Understand and use parallel lines and angles Find and use the sum of interior and exterior angles of a polygon. Calculate the area of a		Pi – ongoing research and experimentation to find the next digit of pi. Reward money associated with this. Perseverance	Architecture. Surveyor. Construction. Games designer. Landscape. Ballerina.	Technology. STEM. Art. PE.
	Area of trapezia and circles Line symmetry and reflection	circle, trapezium and compound shapes. Reflect shapes in horizontal, vertical and diagonal lines.			Danetina.	
Reasoning with data	The data handling cycle Measures of location	Interpret, compare and construct statistical diagrams. Find the mean, mode and median. Choose and compare averages/distributions.		Considering how data can be used in media to mislead us. Students are encouraged to embrace diversity and treat all others with	Stock market. Medicine. Weather predictions.	Geography – world data History – historical information
				respect both in and out of the classroom.		