

Mathematics

Year 6: Spring Term

Maths Cultural Capital = In every lesson, where possible, try to include pedagogy so pupils are expected to apply their maths knowledge and skill to different problems and subject contexts across the curriculum.

Differentiation - Please see teachers' weekly planning for challenging the exceeding pupils and ensuring access for the emerging pupils. Also, refer to the SEND pupils IEP's to ensure their needs are included.

Minimum expectations for AfL strategies in Maths lessons = targeted questioning, mini whiteboards, peer talk, modelling.

Developing pupils' long term memory skills - use - LAST/LAST/LAST strategy linked to WALTs for the lesson.

Term	Week	National Curriculum Statement	WALT Intent	Success Criteria Impact	Key Questions and NC skills developed in the activities Implementation	Resources	Vocabulary
Spring 1	Week 1 Algebra	Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of umbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables	WALT: 1a. Use simple formulae 1b. Generate and describe linear number sequences 1c Express missing number problems algebraically 1d Find pairs of numbers that satisfy an equation with two unknowns 1e Enumerate possibilities of combinations of two variables	I can use simple formulae to solve problems I can express missing numbers algebraically I can Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of umbers that satisfy an equation with two unknowns		Digit cards counters	Positive Sum Product Commutative associative Algebraic Variable Equation Formula Unknowns Algebra Linear number sequences Nth term

 	1	1			
			Enumerate possibilities		
			of combinations of two		
Maak 2	Liso common	\A/A T.	Variables	Calaurad aubaa	Devices
Week 2	factors to simplify	VVALT:	factors to simplify	Coloured cubes,	Bar model
	fractions: use	1a.	fractors to simplify	scissors	Division
Fractions (including	common	Use common	fractions.		Multiplication
decimals and	multiples to express	factors to simplify			Vinculum
percentages)	fractions in the	common			Denominator
	same denomination	multiples to express	I can compare and		Numerator
		fractions in the	order fractions		equivalent
	Compare and order	same denomination	order fractions.		
	fractions, including				
		1b.	I know how to		
	Associate a fraction	Compare ad order	calculate decimal		
	with division and	fractions			
	calculate decimal		equivalents		
	fraction equivalents	1c	I can recall and use		
	[for example,	Associate a fraction	decimal equivalences		
	0.375] for a simple	with division and	accinial equivalences		
	fraction[for	calculate decimal			
	example, γ_8 j	fraction equivalents			
	Recall and use	indetion equivalents			
	equivalences	1d			
	between simple	IU. Bocall and use			
	fractions,	equivalences			
	decimals and	between simple			
	percentages,	fractions,			
	including in	decimals and			
	different contexts	percentages,			
		including in			
		different contexts			
	Calva problems	14/ALT	Lean need unite and		<u> </u>
Week 3	involving the	WALI:	i can reau, write and		Convert
weasurement	calculation and	1a.	standard units		Conversion
	conversion	Solve problems	Stanuaru units		decimal notation
	of units of measure,	involving the	I can solvo probloms		calculation
	using decimal	calculation and	Involving calculation of		
	notation to three	conversion	units		
	decimal places	of units of measure	units.		
	where appropriate		I can solve problems		
	Lise read write and	1b.			
	convert between	Use, read, write and	conversion of units		
	standard units,	convert between	conversion of units.		
	converting				
	measurements of				

	length, mass and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to three decimal places	standard units.			
Week 4 Ratio and Proportion	Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison	WALT: 1a Solve problems involving the calculation of percentages	I can solve problems involving percentages I can solve problems involving the calculation of equations	Number rods Multiplication square	Scale factor Scaling Unit fractions Percentage Quantities integer
	Solve problems involving the relative sizes of two quantities ,where missing values can be found by using integer multiplication and division facts	1b. Solve problems involving the relative sizes of two quantities	I can solve problems involving the relative sizes of two quantities.		
	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	1c. Solve problems involving unequal sharing and grouping			
	Solve problems involving similar shapes where the same scale factor is known or can be found.	1d. Solve problems involving similar shapes where the same scale factor is known or can be found.			

Week 5 Geometry: properties of shapes	Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3- D shapes, including making nets	WALT: 1a. Draw 2-D shapes using given dimensions and angles 1b.	I can use given dimensions to draw 2D shapes. I can build simple 3D shapes	Compass Protractors 3 D nets 3 D shapes	Dimension Angles Nets Geometric Properties Radius Diameter Circumference
	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	Recognise, describe and build simple 3- D shapes, including making nets. 1c. Compare and classify geometric shapes.	I can compare and classify geometric shapes		Coordinate Quadrant Translate Axes reflect
Geometry: position and direction	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	1d. Illustrate and name parts of circles.	I can describe on a full quadrant		
	on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	1d. Describe positions on the full coordinate grid			
Week 6 Measurement	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimeters (cm ³) and cubic metres (m ³) and extending to other	WALT: Calculate, estimate and compare volume of cubes and cuboids using standard units,	I can compare and calculate volume of cubes in standard units. I can estimate the volume of cubes using standard units.		Volume Cubes Standard units Cubic metres/centimetres Mm ³

	Ratio and proportion	units,[for example, mm ³ and km ³] Solve problems involving similar shapes where the scale factor is known or can be found.			
Spring 2	Week 1				
	Week 2				
	Week 3				
	Week 4				
	Week 5				
	Week 6				