

# Subject Long Term Plan Year 7

W/C	6 <sup>th</sup> September	10 <sup>th</sup> September	17 <sup>th</sup> September	24 <sup>th</sup> September	1 <sup>st</sup> October	8 <sup>th</sup> October	15 <sup>th</sup> October	HALF TERM	31 <sup>st</sup> October	5 <sup>th</sup> November	12 <sup>th</sup> November	
	Getting to know you	Problem Solving	Baseline assessment	Number & Place Value	Number & Place Value	Number & Place Value	Number Addition & Subtraction.			Number Addition & Subtraction	Number Multiplication & Division	Number Multiplication & Division
	Clocks Farm	Investigations from problem solving folder.	Assessment Problem solving	Understand and use place value for decimals, measure and integers of any size Order positive and negative integers, use the number line as a model for ordering of the real numbers: use the symbols =, >, < Round numbers and measure to an appropriate degree of accuracy ( e.g. number of decimal places or significant figures)			Use formal written method for addition and subtraction of integers and decimals.		Recognise and use relationships between addition and subtraction including inverse operations Calculate and solve problems including perimeter	Multiply and divide by 10, 100 and 1000 Use formal written methods for multiplication and division of decimals and integers including different methods eg grid, Napier's bones, Vedic or Russian peasant Recognise and use relationships between operations including inverse operations Understand the order of operations		
W/C	19 <sup>th</sup> November	26 <sup>th</sup> November	3 <sup>rd</sup> December	10 <sup>th</sup> December	CHRISTMAS	7 <sup>th</sup> January	14 <sup>th</sup> January	21 <sup>st</sup> January	28 <sup>th</sup> January	4 <sup>th</sup> February	11 <sup>th</sup> February	HALF TERM
	Number Multiplication & Division	Number Multiplication & Division	Number Multiplication & Division	Revision and Assessment			Number Fractions 1	Number Fractions 1	Number Fractions 1	Number Fractions 1	Number Fractions 1	
	Use the concepts and vocabulary of prime numbers, factors, common factors and highest common factor Use integer powers and real roots ( square, cube and higher), recognise powers of 2,3,4,5 and distinguish between exact representations and their decimal approximations Calculating in standard index form Prime Factor decomposition Area of rectangles, triangles and parallelograms Calculate the mean average Use approximation through rounding to estimate answers and calculate possible error bounds using inequality notation			Understanding your calculator screen		Represent fractions using diagrams and on a number line Express one quantity as a fraction of another Identify and use equivalent fractions Compare and order fractions using symbols $\geq$ , $\leq$ , $=$ , $<$ , $>$ Convert between mixed numbers and improper fractions Simplify Fractions Convert between fractions and decimals: - associating a fraction with division to convert any fraction to decimals Use concepts and vocabulary of multiples and lowest common multiple Add, subtract, multiply and divide fractions Find fractions of an amount.						



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W/C	25th February	4 <sup>th</sup> March	11 <sup>th</sup> March	18 <sup>th</sup> March	25 <sup>th</sup> March	1 <sup>st</sup> April	EASTER	24 <sup>th</sup> April	29 <sup>th</sup> April	6 <sup>th</sup> May	13 <sup>th</sup> May	
	Revision/ Assessment	Statistics	Statistics	Number Negative Numbers	Geometry: Shape	Problem solving			Algebra 1	Algebra 1	Algebra 1	Assessment week
		Types of data Mean, median, mode and range	Collect and analyse data: tally charts, 2 way tables. Draw and interpret pictograms, bar and pie charts. Interquartile range boxplot, applying inverse operations.	Use the 4 operations with negative numbers	Properties of triangles and quadrilaterals Naming 2d and 3 d shapes Constructing shapes using compasses, protractors and rulers				Introduction to algebra: Understand that a letter represents a variable Understand the difference between an expression, equation, formula, term, function and identity Create equations for problem solving Use and interpret algebraic notation Substitute numerical values into formula and expressions ( including negatives)			
W/C	20 <sup>th</sup> May	HALF TERM	3 <sup>rd</sup> June	10 <sup>th</sup> June	17 <sup>th</sup> June	24 <sup>th</sup> June	1 <sup>st</sup> July	8 <sup>th</sup> July	Enrichment week			
	Algebra 1		Algebra	Geometry & Angles	Geometry & Angles	Geometry & Angles		Problem Solving				
	Rearranging formulae Simplifying linear expressions Solve simple equations with 1 variable		Sequences & patterns; recognise arithmetic sequences and find the nth term. Generate terms of a sequence from either a term to term or position to term rule.	Describe, sketch and draw points, lines, parallel lines, perpendicular lines, right angles , regular polygons and other polygons that are reflectively and rotationally symmetric. Derive and illustrate properties of triangles, quadrilaterals, circles etc Use a protractor to measure and draw angles Angle properties: straight line, at a point, parallel lines. Derive and use the sum of angles in a triangle and a quadrilateral Use the sum of angles in a triangle to deduce the angle sum in any polygon and derive properties of regular polygons.		Investigations from problem solving folder – focused on geometry where possible						