Week	36	37	38	39	
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul	
Topic					
Key Objectives					
Assessment					
Homework					

Department **Year 7 grades 2+ long term plan**

	Assessment weeks
	Moderation week
	Data Capture
	STAR marking
	Teacher A (lead)
	Teacher B

Key Skills to be Covered

Number: 4 operations; BIDMAS; prime factors; rounding; ratio and proportion; fraction/decimal/percentage equivalences and calculations.

Algebra: linear equations; substitution; simple rearrangements of equations; linear sequences; linear graphs.

Shape and Space: Angles; area & volume; conversion between units; using scales.

Data and Probability: Interpreting and drawing statistical diagrams: pie charts; bar charts.

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
W/C Date	03-Sep	10-Sep	17-Sep	24-Sep	01-Oct	08-Oct	15-Oct		29-Oct	05-Nov	12-Nov	19-Nov	26-Nov	03-Dec	10-Dec	17-Dec		
Topic	Numbers and the number system	Numbers and the number system	Calculating	Calculating	Calculating	Consolidation and Revision/assessment	Calculating		Checking, approximating and estimating	Counting and comparing	Counting and comparing	Visualising and constructing	Algebraic Proficiency	Algebraic Proficiency	Algebraic Proficiency	Exploring Fractions, Decimals and Percentages		
Key Objectives	Factors, multiples, HCF, LCM, Prime factorisation	Evaluate powers, recognise triangular numbers, square numbers and cube number. Find Square roots, cube roots and other roots including the use of calculator.	Multiply and divide whole numbers and decimals by powers of 10	Addition and subtraction of whole numbers and decimals using formal written method.	Formal written methods for long multiplication & short division		BIDMAS		Round numbers to decimal places and significant figures. Estimate calculations.	Use inequality symbols: <, > and = to compare numbers. Order a set of integers and decimals.	Order fractions and mixed numbers with the same and different denominators. Order a combination of integers, decimals, fractions and mixed numbers	Identify parallel and perpendicular lines and rotational symmetry in polygons. Construct triangles and other shapes from written description.	Meaning of expression, term, formula, equation, function. Notation of algebra. Simplification and like terms	Expand single and two sets of brackets and collect like terms	Substitute positive and negative numbers into expressions and formulae. Establish outputs from given inputs and inputs from given outputs	Write one quantity as a fraction of another. Conversion between fractions, decimals and percentages.		
Assessment		7M1 BAM					7M2 BAM		7M6 BAM			7M13 BAM	7M7 BAM	7M8 BAM	7M9 BAM	7M3 BAM		
Homework																		

Week	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
W/C Date	07-Jan	14-Jan	21-Jan	28-Jan	04-Feb	11-Feb		25-Feb	04-Mar	11-Mar	18-Mar	25-Mar	01-Apr	08-Apr		
Topic	Proportional Reasoning	Sequences/ Measuring space	Measuring space	Investigating Angles	Calculating Fractions, decimals and percentages.	Calculating Fractions, decimals and percentages.		Calculating Fractions, decimals and percentages.	Calculating Fractions, decimals and percentages.	Solving Equations.	Solving Equations	Calculating Space.	Calculating Space	Mathematical movement		
Key Objectives	Explore the uses of ratio. Simplify and share an amount into a given ratio. Solve problems with ratio	Recognise simple arithmetic progressions. Use a term-to-term rule to generate a linear and non-linear sequence. Sequence. Measure line segments and angles to the nearest degree.	Conversion between metric units of length, mass, volume, capacity, time and money.	Recognise and solve problems using angles on a straight line, round a point, vertically opposite angles and angles in triangles.	Add and subtract proper and improper fraction. Solve problems involving fractions.	Multiply and divide proper and improper fractions. Solve problems.		Convert between fractions, decimals and percentages. Find a percentage of an amount using multiplier method. Increase and decrease an amount by a percentage using multiplier methods.	Compare two quantities using percentage and Know that percentage change = actual change ÷ original amount. Calculate the percentage change in a given situation, including percentage increase / decrease.	Solve one step and two step equations. Solve equations involving fractions.	Solve two step equations. Solve muti-step equations involving brackets. Substitution.	Calculate the perimeter of 2-D shapes. Calculate the area of compound shapes and triangles and parallelograms.	Calculate the area of a trapezium. Find the volume and surface area of cubes and cuboids.	Work with coordinates in all four quadrants. Write the equation of a line parallel to the x-axis or the y-axis and draw the lines y = x and y = -x. Reflect shapes in horizontal and vertical mirror lines		
Assessment						7M5 BAM			7M4 BAM		7M10 BAM		7M12 BAM			
Homework																

	35	36	37	38	39	40	41	42	43	44	45	46	46
Week	29-Apr	06-May	13-May	20-May		03-Jun	10-Jun	17-Jun	24-Jun	01-Jul	08-Jul	15-Jul	13-May
W/C Date													
Topic	Mathematical movement.	Presentation of data	Consolidation and Revision/assessment	Presentation of data		Measuring data	Measuring data	Problem solving					
Key Objectives	Reflections in diagonal mirror lines. Rotation and translation. Solve problems involving rotations, reflections and translations	Interpret and construct frequency tables. Construct and interpret bar charts and comparative bar charts and know their appropriate use. Interpret pie charts.		Construct pie charts. Construct and interpret vertical line charts. Choose appropriate graphs or charts to represent data.		Calculate mean, median, mode and range for a set of data. Solve worded problems involving averages.	Calculate mean, median, mode and range from a frequency table. Analyse and compare sets of data, appreciating the limitations of different statistics (mean, median, mode, range)	Solve problems based on different topics					
Assessment	7M11 BAM												