

Week	36	37	38	39
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul
Topic	Numbers and the number system	Numbers and the number system	Calculating	Calculating
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.
Assessment		7M1 BAM		
Homework				

### Mathematics 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	Calculating	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	Enrichment, Consolidation and Revision		Proportional Reasoning	Sequences/Measuring space	Measuring space		
Key Objectives	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.	RECAP Rounding, significant figure and estimation. Ordering fractions and decimals. Non-calculator methods of calculation. BIDMAS Algebraic skills.	Test Week Feedback and intervention to meet needs of group. Opportunity to also include some problem solving activities.	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. Christmats activities.		
Assessment		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	Investigating Angles	Calculating Fractions, decimals and percentages.	Calculating Fractions, decimals and percentages.	Calculating Fractions, decimals and percentages.	Calculating Fractions, decimals and percentages.	RECAP		Solving Equations.	Solving Equations	Maths for Science Week	Calculating Space.	Calculating Space	Mathematical movement	Mathematical movement.		
Key Objectives	Recognise and solve problems using angles on a straight line,	Add and subtract proper and improper fraction.	Multiply and divide proper and improper	Convert between fractions, decimals and percentages. Find	Compare two quantities using percentage and Know that	Sequences. 4 operations with fractions.		Solve one step and two step equations. Solve equations involving fractions.	Solve two step equations. Solve multi-step equations involving		Calculate the perimeter of 2-D shapes. Calculate the area of compound	Calculate the area of a trapezium. Find the volume and surface	Work with coordinates in all four quadrants.	Reflections in diagonal mirror lines. Rotation and translation.		

