Week	36	37	38	39	
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul	
Topic	**Number and Calculating 1**	**Number and Calculating 2**	**Ratio and Proportion 1**	**Geometry and measures 1**	
Key Objectives	Number operations and place value, short multiplication and division. BIDMAS	Factors, multiples and primes: prime factor decomposition; find the LCM and HCF of two numbers, by listing, Venn diagrams and using prime factors.	Understand, simplify and use ratio, incl. the link with fractions. Divide in a given ratio and use a ratio to find one quantity when the other is known.	Be able to use and interpret maps and scale drawings, using a variety of scales and units Understand, draw and measure bearings	
Assessment			GCSE Questions		
Homework					

Mathematics Year 10 Foundation grades 1-4 long term plan

	Assessment weeks
	Moderation week
	Data Capture
	STAR marking
	Exit Poll

Key Skills to be Covered

Number: 4 operations; BIDMAS; prime factors; know the prime, square and cube numbers, use basic indices; fraction/decimal/percentage equivalences; calculate a percentage of a quantity.

Algebra: simplification skills; linear equations; factorisation; using formulas; linear sequences; graphs of linear functions and real life graphs.

Shape and Space: Angles in parallel lines & polygons; using scales & scale drawing; bearings; perimeter & area; Pythagoras' theorem; area & circumference of a circle; vector translations & enlargement; 2D representation of 3D.

Data and Probability: statistical diagrams; calculate the mode, median, mean and range of grouped data; find simple theoretical probabilities; use probability to calculate expected outcomes.

Ratio and Proportion: division in a given ratio; proportion using a multiplier; real-life problems: best buy, currency conversion; ordering and comparing fractions, decimals and percentages.

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	**Algebra 1 Skills**	**Geometry and measures 2**	**Number and Calculating 3 Powers and roots:**	**RECAP**	**Assessment 1 Consolidation**	**Ratio and Proportion 2**	**Data and Probability 1**		**Algebra 2 Expanding, Factorising & Formulas**	**Geometry and measures 3**	**Number and Calculating 4**	**Geometry and measures 4. Circles**	**Data and Probability 2**	**Ratio and Proportion 3**	**Algebra 3 Solving linear equations**	**RECAP**		
Key Objectives	Interpret input and outputs. Substitute and evaluate simple expressions. Simplify expressions by collecting like terms and multiplying terms.	Understand and use the angle properties of straight lines, parallel lines and find missing angles using the properties of corresponding and alternate angles, giving reasons.	Evaluate expressions involving squares, cubes and roots. Know the integer squares up to 15 x 15 and corresponding square roots; cube numbers up to 10^3.	BIDMAS. Types of Number. Division in a given ratio. Algebraic skills. Angles in polygons.		Know how to scale up recipes. Be able to convert between currencies. Solve problems involving compound units such as speed, rates of pay, unit pricing	Be able to construct an appropriate graph or chart from a set of data. Be able to use and design two-way tables for discrete and grouped data.		Expand a single bracket, factorise simple algebraic expressions. Use simple formula and set up simple equations from word problems.	Area and Perimeter. Rectangles, triangles, parallelogram, trapezium. Compound shapes involving these. Surface area. Problem solving.	Add and subtract negative integers. Convert between mixed numbers and improper fractions. Find a fraction of an amount.	Name the parts of a circle. Recall and use the formulas for the circumference and area of a circle. Compound shapes involving circles.	Recognise simple relationships in bar charts, line graphs and frequency polygons. Calculate the mean, mode, median and range from a frequency table (discrete data). Interpret grouped frequency tables for continuous data. Compare the mean/median/ mode and range of two distributions.	Solve proportion problems using the unitary method. Work out which is the 'best buy'. Identify direct proportion from a table of values and, by reference to the graph form.	Be able to solve linear equations, with integer coefficients, in which the unknown appears on either side or on both sides of the equation.	Using Formulas. Solving linear equations. Perimeter and area including the circle. Averages.		
Assessment		GCSE Questions			Test 1					GCSE Questions		GCSE Questions		GCSE Questions				
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	**Number and Calculating 5 Decimals & Rounding**	**Algebra 4 Co-ordinates and real life graphs.**	**Ratio and Proportion 4**	**Geometry and measures 5. Transformations**	**Data and Probability 3**	**RECAP**		**Number and Calculating 6 Percentage**	**Algebra 5 Equation of a straight line.**	**Data and Probability 4 Scattergraphs and Pie Charts**	**Geometry and measures 6. Pythagoras**	**Number & Calculating 7 FDP**	**Data and Probability 5**	**RECAP**		
Key Objectives	Be able to order decimals. Be able to add, subtract, multiply or divide decimals. Estimate answers to calculations, rounding numbers and estimating to 1 significant figure.	Use and plot points in all four quadrants. Find co-ords. of the midpoint of a line segment. Use and draw graphs for real-life situations e.g. conversion graphs/time & distance graphs.	Be able to compare fractions, decimals, percentages and order them. Express a multiplicative relationship between two quantities as a ratio or a fraction.	Recognise and describe in full single transformations. Use column vectors for translations. Enlargement with a positive integer or fractional scale factor.	Understand and use experimental and theoretical measures of probability, including relative frequency. Know and use the sum of probabilities of all outcomes is 1. Systematic listing strategies	Non-calculator problems with decimals. Ordering decimals. Reflection & Rotation. Using graphs.		Understand the link between fractions, decimals and percentage. Find a percentage of a quantity using a multiplier. Percentage increase and decrease.	Construct a table from a linear equation and plot and draw a graph. Interpret the gradient and y-intercept of a linear graph given by equations of the form y = mx +c	Draw and interpret scattergraphs and lines of best fit. Types of correlation. Identify and find reasons for outliers. Construct and interpret pie charts.	Be able to calculate the length of a side in a right-angled triangle. Given three sides of a triangle, be able to justify if it is right-angled or not.	Compare quantities by calculating equivalent fractions, decimals and percentages. Order fractions, decimals and percentages.	Calculate expected outcomes of experiments by applying ideas of randomness, fairness and equally likely events. Calculate the probability of successive events. Find a missing probability from a list or two-way table, including algebraic terms.	Percentage of a quantity. FDP equivalences. Pythaoras Area formulas and problem solving. Graphs of simple linear equations.		
Assessment	GCSE Questions			GCSE Questions				GCSE Questions			GCSE Questions		GCSE Questions			
Homework																

	35	36	37	38	39	40	41	42	43	44	45	46	46
W/C Date	29 Apr	06-May	13-May	20-May		03-Jun	10-Jun	17-Jun	24-Jun				
Topic	**Geometry and measures 7. 3D representation**	**Ratio and Proportion 5**	**Number and Calculating 8**	**Algebra 6 Sequences**		**Revision and Assessment**	**Assessment and review of papers**	**Intervention and consolidation from mocks.**					
Key Objectives	Be able to sketch and recognise nets of cuboids and prisms. Identify properties of 3D objects. Plans and Elevations.	Percentage increase or decrease, including: simple interest, profit or loss. Compare two quantities using percentages. Solve problems involving percentage change including original value problems.	Be able to add and subtract fractions including mixed numbers. Be able to multiply and divide fractions, including mixed numbers.	Find and use the nth term of an arithmetic sequence and recognise terms that do not fit the sequence. Recognise sequences of square, triangular and cube numbers		Full GCSE mock higher papers	Full GCSE mock higher papers	Tailored feedback and teacher led interventions in connection with strengths and weaknesses in first half of mock exam papers.					
Assessment	GCSE Questions												
				GCSE Practice Papers Set 1									