Term	Week	Hours	Chapter: Topic	Topic break-down (sub-topics)	Learning Objectives: Students will be able to:
Term 1 – Module 1 and 2	Week 1 – 3	10	**1: Number: Basic number**	1.1 Place value and ordering numbers	• use a number line to represent negative numbers • use inequalities with negative numbers • compare and order positive and negative numbers.
				1.3 The four rules	• use the four rules of arithmetic with integers and decimals.
				1.2 Order of operations and BIDMAS	• work out the answers to problems with more than one mathematical operation.
	Week 4 – 6	11	**2: Geometry and measures: Measures and scale drawings**	2.1 Systems of measurement	• convert from one metric unit to another • convert from one imperial unit to another.
				2.2 Conversion factors	• use approximate conversion factors to change between imperial units and metric units.
				2.3 Scale drawings	• read and draw scale drawings • use a scale drawing to make estimates.
				2.4 Nets	• draw nets of some 3D shapes • identify a 3D shape from its net.
				2.5 Using an isometric grid	• read from and draw on isometric grids • interpret diagrams to draw plans and elevations.
	Week 7	3	Review and revision 1	Number	
	Week 8/9				
	Week 1 – 2	7	**3: Statistics: Charts, tables and averages**	3.1 Frequency tables	• use tally charts and frequency tables to collect and represent data • use grouped frequency tables to collect and represent data.
				3.2 Statistical diagrams	• draw pictograms to represent statistical data • draw bar charts and vertical line charts to represent statistical data.
				3.3 Line graphs	• draw a line graph to show trends in data.
				3.4 Statistical averages	• work out the mode, median, mean and range of small sets of data • decide which is the best average to use to represent a data set.
	Week 3 – 4	7	**4: Geometry and measures: Angles**	4.1 Angles facts	• calculate angles on a straight line • calculate angles around a point • use vertically opposite angles.
				4.2 Triangles	• recognise and calculate the angles in different sorts of triangle.
				4.3 Angles in a polygon	• calculate the sum of the interior angles in a polygon.
				4.4 Regular polygons	• calculate the exterior angles and the interior angles of a regular polygon.
				4.5 Angles in parallel lines	• calculate angles in parallel lines.
				4.6 Special quadrilaterals	• use angle properties in quadrilaterals.
				4.7 Bearings	• use a bearing to specify a direction.
	Week 5 – 6	7	**5: Number: Number properties**	5.1 Multiples of whole numbers	• find multiples of whole numbers • recognise multiples of numbers.
				5.2 Factors of whole numbers	• identify the factors of a number.
				5.3 Prime numbers	• identify prime numbers.
	Week 7	4	Y9 examinations and revision		
	Week 8		CHRISTMAS BREAK		
	Week 9		CHRISTMAS BREAK		

Term	Week	Hours	Chapter: Topic	Topic break-(sub-topics)	Learning Objectives: Students will be able to:
Term 2 – Module 3 and 4	Week 1 – 2	7	5: Number: Number properties	5.4 Prime factors, LCM and HCF	• identify the lowest common multiple (LCM) of two numbers • identify the highest common factor (HCF) of two numbers.
				5.5 Square numbers	• identify square numbers • use a calculator to find the square of a number.
				5.6 Square roots	• recognise the square roots of square numbers up to 225 • use a calculator to find the square roots of any number.
				5.7 Basic calculations on	• use some of the important keys when working on a calculator.
	Week 3 – 4	7	6: Number: Approximations	6.1 Rounding whole numbers	• round a whole number.
				6.2 Rounding decimals	• round decimal numbers to a given accuracy.
				6.3 Approximating calculations	• identify significant figures • round numbers to a given number of significant figures • use approximation to estimate answers and check calculations • round a calculation at the end of a problem, to give what is considered to be a sensible answer.
	Week 5	3	7: Number: Decimals and fractions	7.1 Calculating with decimals	• multiply and divide with decimals.
	Week 6	4	Review and revision 2		
	Week 7		HALF TERM BREAK		
	Week 1 – 2	7	7: Number: Decimals and fractions	7.2 Fractions and reciprocals	• recognise different types of fraction, reciprocal, terminating decimal and recurring decimal • convert terminating decimals to fractions • convert fractions to decimals • find reciprocals of numbers or fractions.
				7.3 Writing one quantity as a fraction of another	• work out a fraction of a quantity • find one quantity as a fraction of another.
				7.4 Adding and subtracting fractions	• add and subtract fractions with different denominators.
				7.5 Multiplying and dividing fractions	• multiply proper fractions • multiply mixed numbers • divide by fractions.
				7.6 Fractions on a calculator	• use a calculator to add and subtract fractions • use a calculator to multiply and divide fractions.
	Week 3 – 4	7	8: Algebra: Expressions and Formulae	8.1 Basic algebra	• write an algebraic expression • recognise expressions, equations, formulae and identities
				8.2 Substitution	• substitute into, simplify and use algebraic expressions
				8.3 Expanding brackets	• expand brackets such as $2(x - 3)$ • expand and simplify brackets
				8.4 Factorisation	• factorise an algebraic expression
	Week 5	3	Review and revision 3		
	Week 6	3	Review and revision 3		
	Week 7		EASTER BREAK		
	Week 8		EASTER BREAK		

Term	Week	Hours	Chapter: Topic	Topic break-(sub-topics)	Learning Objectives: Students will be able to:
Term 3 – Module 5 and 6	Week 03-Apr	7	9: Algebra: Linear graphs	9.2 Drawing linear graphs by finding points	• draw linear graphs without using flow diagrams
				9.3 Gradient of a line	• work out the gradient of a straight line • draw a line with a certain gradient
				9.4 y = mx + c	• draw graphs using the gradient-intercept method • draw graphs using the cover-up method
				9.5 Finding the equation of a line from its graph	• work out the equation of a line, using its gradient and y-intercept • work out the equation of a line given two points on the line
	Week 5	3		9.6 The equation of a parallel line	• work out the equation of a linear graph that is parallel to another line and passes through a specific point.
				9.7 Real-life uses of graphs	• convert from one unit to another unit by using a conversion graph • use straight-line graphs to work out formulae
				9.8 Solving simultaneous equations using graphs	• solve simultaneous linear equations using graphs
	Week 6	4	Review and revision 4		
	Week 7		Half Term Break		
	Week 1 – 2	7	8: Algebra: Expressions and formulae	8.5 Quadratic expansion	• expand two linear brackets to obtain a quadratic expression.
				8.6 Quadratic factorisation	• factorise a quadratic expression of the form $x^2 + ax + b$ into two linear brackets.
				8.7 Changing the subject of a formula	• change the subject of a formula.
	Week 3	3	Summer examinations and revision		
	Week 4	4	Summer examinations and revision		
	Week 5 – 6	10	10: Ratio and proportion and rates of change: Ratio, speed and proportion	10.1 Ratio	• simplify a ratio • express a ratio as a fraction • divide amounts into given ratios • complete calculations from a given ratio and partial information.
				10.2 Speed, distance and time	• recognise the relationship between speed, distance and time • calculate average speed from distance and time • calculate distance travelled from the speed and the time taken • calculate the time taken on a journey from the speed and the distance.
				10.3 Direct proportion problems	• recognise and solve problems that involve direct proportion.
				10.4 Best buys	• find the cost per unit mass • find the mass per unit cost • use the above to find which product is better value.