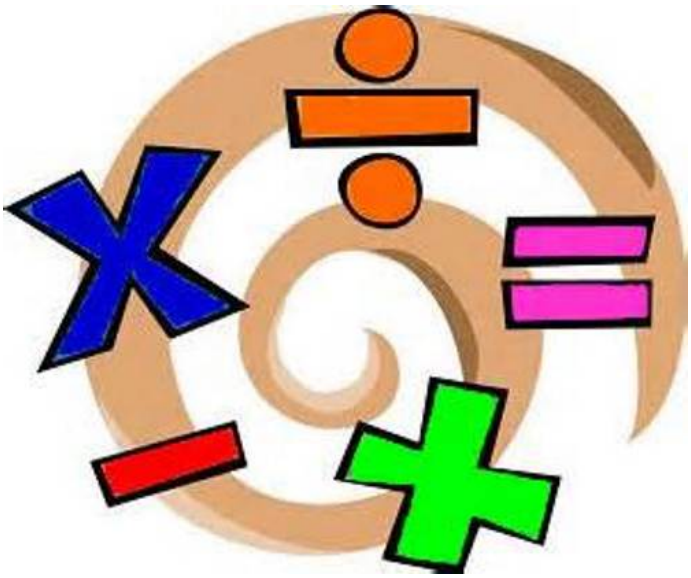
THE BECKET SCHOOL
A CATHOLIC VOLUNTARY ACADEMY

LABORARE ORARE

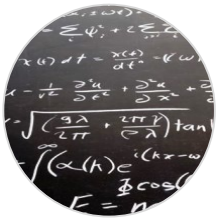
PERSONAL LEARNER CHECKLIST KS4

GCSE Maths Foundation



Parent Curriculum Information:

Maths Foundation



Subject: Mathematics Foundation

Year Group: 11

Subject Leader: Mr Pickup

Email address: t.pickup@becketonline.co.uk

What Specification (syllabus) is being taught?	OCR Mathematics (9-1) J560
What are the key topics and themes? When will they be taught?	5 key areas of Number, Algebra, Geometry & measure, Probability & Statistics and Ratio & proportion have been taught over the last three years. Students have also been supported in presenting a reasoned answer for all questions as there is a much bigger focus on problem solving and interpretation in this new exam.
How will my son or daughter be assessed? When do these assessments take place?	Paper 1 –Calculator (1 hour 30 minutes, 33.3% of GCSE grade) – Paper 2 – Non Calc (1 hour 30 minutes, 33.3% of GCSE grade) – Paper 3 –Calculator (1 hour 30 minutes, 33.3% of GCSE grade) – All students will need a scientific calculator, protractor, compass and ruler.
What can my son or daughter do for revision at home? What materials are provided or available online?	Students will be receiving past papers from the maths department at regular intervals • www.ocr.co.uk specification and some sample papers. • www.justmaths.co.uk Google in 9-1 Foundation to get ALL of the questions from ALL of the specimen papers to practise the new types of question. • www.getrevising.co.uk/ 1,000s of searchable revision materials including quizzes and exam questions. • www.corbettmaths.com/ 5 a day useful for daily maths revision. Provides 5 questions at your chosen level with answers to support revision. Website also has lots of supportive video clips. • https://diagnosticquestions.com/ Student will have to sign up (it's free and you do not have to supply an email). Extensive range of online mini-tests which will mark the tests for students and show mistakes. Students can then access other student's answers to help them understand why they were wrong. **Year 11 Higher Code**: SC-8ZQ743PW0F7G **Year 11 Foundation Code**: SC-R5GEJ5SCNLLQ • www.**mathsgenie**.co.uk lots of revision resources • www.mathswebsite.com Worksheets and videos with free sign up

Unit 1: Number (Foundation)					
Secure (S)	1	divide BY a decimal number			
	2	round to a given number of significant figures			
	3	estimate the answer to a problem by rounding given numbers to 1 sig fig			
	4	Write error intervals using decimal places and significant figures			
	5	use the product of prime factors in a Venn diagram to find HCF and LCM			
	6	use HCF and LCM to solve problems			
	7	use the laws of indices:			
	8	Able to use and combine different areas of maths to solve problems			
	9	Solutions are complete and justified with step-by-step working			
Developing (D)	1	round to a given number of decimal places			
	2	multiply decimal numbers			
	3	divide a decimal number			
	4	split a number into its product of prime factors			
	5	find HCF and LCM by listing			
	6	Extract and use key information to solve a worded problem			
	7	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	add, subtract integers			
	2	multiply by a single digit			
	3	divide by a single digit			
	4	multiply and divide by 2 digit integers			
	5	recognise factors of an number and multiples of a number			
	6	recognise prime numbers, square numbers, cube numbers			
	7	Choose the correct maths to solve a problem			
	8	Solution shows some stages of working when finding your answer			

Unit 2: ALGEBRA (Foundation)					
Secure (S)	1	use index laws for algebra			
	2	divide expressions			
	3	substitute positive and negative numbers into expressions			
	4	substitute positive and negative numbers into a formula and draw conclusion			
	5	substitute numbers into expressions with brackets and powers			
	6	factorise by taking out a common factor			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	simplify algebraic expressions by collecting like terms with + and - and different letters			
	2	multiply expressions			
	3	Substitute numbers into function machines to find inputs and outputs			
	4	substitute positive numbers into expressions			
	5	recognise factors of algebraic terms			
	6	use the identity symbol ≡ and the not equal to symbol to create accurate statements≠			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	use correct notation - know difference between 2a = a+a and a x a = a			
	2	can write an expression to match a given situation. Eg I have x pens. J has 3 more - how many is that?			
	3	simplify algebraic expressions by collecting like terms with + and - but SAME letters			
	4	recognise difference between an expression, a formula and an equation			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 3: Graphs (Foundation)					
Secure (S)	1	Design a two-way table			
	2	Know the difference between a bar chart and a histogram			
	3	Predict trends using a time series graph			
	4	Draw a pie chart			
	5	Interpret a scatter graph using line of best fit and predicting values			
	6	Able to use and combine different areas of maths to solve problems			
	7	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Design a data collection sheet			
	2	Use data from a table.			
	3	Use a two-way table to answer questions			
	4	Draw and interpret comparative and composite bar charts			
	5	Plot and interpret a time series graph			
	6	Plot a scatter graph			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Read data from a table			
	2	Draw a bar chart			
	3	Read values from a bar chart			
	4	Read values from a pie chart			
	5	Determine whether or not there is a relationship between set of data using a scatter graph			
	6	Choose the correct maths to solve a problem			
	7	Solution shows some stages of working when finding your answer			

Unit 4: Fractions and Percentages (Foundation)					
Secure (S)	1	Use fractions to solve addition and subtraction problems, including comparing fractions			
	2	Multiply mixed numbers			
	3	Divide a whole number by a fraction			
	4	Use fractions to solve problems involving all operations			
	5	Calculate percentage increase and decrease using percentage multiplier			
	6	Use percentage increases in real-life situations			
	7	Use percentages to solve problems			
Developing (D)	1	Add and subtract fractions with same and different denominators and mixed numbers			
	2	Multiply whole numbers, and fractions			
	3	Divide a fraction by a whole number or a fraction			
	4	Use decimals to find quantities			
	5	Write one number as a fraction/percentage of another			
	6	Calculate percentage increase and decrease with and without a calculator			
Foundation (F)	1	Find a fraction of a quantity			
	2	Simplify fractions by cancelling			
	3	Convert fractions to decimals and vice versa			
	4	Convert percentages to fractions and decimals and vice versa			
	5	Find a percentage of a quantity with a calculator			
	6	Calculate VAT			
	7	Calculate simple interest			

Unit 5: Equations, Inequalities and Sequences (Foundation)					
Secure (S)	1	Solve equations including brackets e.g. 3(2x - 5) = 14			
	2	Solve equations with unknowns on both sides e.g. 3x + 10 = 5x - 3			
	3	Create and solve equations from worded problems or diagrams			
	4	Solve two sided inequalities e.g.20 < 3x – 1 < 29			
	5	Find and use the nth term of a descending sequence			
	6	Solve and justify problems using sequences e.g. Is 27 in the sequence 5n + 4			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Solve two step equations e.g. 2x + 1 = 11			
	2	Solve equations with negative or fractional answers			
	3	Expand a single bracket e.g. 3(2x + 5)			
	4	Define and use the identity symbol			
	5	Create expressions from worded problems			
	6	Find the integer solutions to a double sided inequality			
	7	Solve a one-sided inequality			
	8	Recognise and extend sequences including Fibonacci			
	9	Find and use the nth term of an ascending sequence			
	10	Extract and use key information to solve a worded problem			
	11	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Solve one step equations e.g. 3x = 15			
	2	Know the difference between an equation, expression and formula			
	3	Understand the word integer and the difference between < and ≤			
	4	Show an inequality on a number line			
	5	Recognise and extend simple sequences			
	6	Recognise patterns in shape or diagram sequences			
	7	Choose the correct maths to solve a problem			
	8	Solution shows some stages of working when finding your answer			

Unit 6: ANGLES (Foundation)					
Secure (S)	1	recognise alternate and corresponding and co interior angles on a pair of parallel lines			
	2	find interior and exterior angles of polygons, and use that to work out how many sides a regular polygon will have. Know the formula and the justification.			
	3	know that interior and exterior angles of a polygon are on a straight line so add up to 180 degrees			
	4	know that 360 ÷ number of sides = interior angle			
	5	use algebra to find missing angles			
	6	justify why some shapes tessellate and others do not			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	know and use the fact that angles in a quadrilateral add up to 360 degrees			
	2	know and use the fact that angles in a triangle add up to 180 degrees			
	3	know that congruent triangles are exactly the same and similar triangles are in proportion			
	4	know the number of sides of different polygons and what makes a polygon regular			
	5	Extract and use key information to solve a worded problem			
	6	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	name all quadrilaterals			
	2	know the properties of quadrilaterals			
	3	use the correct notation to describe/ identify angles and sides			
	4	use words like parallel and perpendicular to describe sides and diagonals of shapes			
	5	use words like acute and obtuse and reflex to describe the size of an angle			
	6	know the names of triangles - scalene, isosceles and equilateral, and the properties of each			
	7	Choose the correct maths to solve a problem			
	8	Solution shows some stages of working when finding your answer			

Unit 7: Averages and Range (Foundation)					
Secure (S)	1	Estimate the mean of grouped data.			
	2	Estimate the range from a grouped frequency table.			
	3	Find the median from a frequency table.			
	4	Understand the need for sampling.			
	5	Understand how to avoid bias.			
	6	Find averages and range from different types of graphs			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Calculate the mean from a frequency table.			
	2	Find the modal class.			
	3	Identify outliers.			
	4	Find the mode, median and range from a stem and leaf diagram.			
	5	Recognise the advantages and disadvantages of each type of average.			
	6	Extract and use key information to solve a worded problem			
	7	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Compare sets of data using the mean and range.			
	2	Find the mode, median and range from a list			
	3	Calculate the mean from a list			
	4	Choose the correct maths to solve a problem			
	5	Solution shows some stages of working when finding your answer			

Unit 8: Perimeter, Area and Volume (Foundation)					
Secure (S)	1	Find the height of a trapezium given its area.			
	2	Convert between area measures.			
	3	Solve problems involving surface area and volume.			
	4	Convert between measures of volume.			
	5	Calculate the surface area of a prism.			
	6	Find the area and perimeter of composite shapes			
	7	Find the area and circumference of circles			
	8	Able to use and combine different areas of maths to solve problems			
	9	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Calculate the perimeter and area of rectangles, parallelograms and triangles.			
	2	Calculate the area and perimeter of trapezia.			
	3	Estimate lengths, areas and costs.			
	4	Calculate areas in hectares, and convert between ha and m^2.			
	5	Calculate the volume of a prism.			
	6	Calculate the perimeter and area of shapes made from triangles and rectangles.			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Calculate the perimeter and area of squares, rectangles and parallelograms			
	2	Calculate a missing length, given the area.			
	3	Calculate the volume of a cuboid			
	4	Calculate the surface area of a cuboid.			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 9: Graphs (Foundation)					
Secure (S)	1	Solve problems using distance-time graphs			
	2	Solve problems using real life graphs			
	3	Understand when predictions are reliable			
	4	Able to use and combine different areas of maths to solve problems			
	5	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Find the midpoint of a line segment			
	2	Find the gradient of a line, understand parallel lines have the same gradient			
	3	Understand and use y=mx+c to draw graphs from equations and write equations of graphs			
	4	Draw distance-time graphs			
	5	Draw and interpret graphs from real data			
	6	Extract and use key information to solve a worded problem			
	7	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Plot coordinates in all 4 quadrants			
	2	Plot straight line graphs from a table of values			
	3	Generate coordinates from a rule			
	4	Recognise name and plot graphs parallel to x and y axes			
	5	Recognise name and plot graphs of y = x and y = -x			
	6	Choose the correct maths to solve a problem			
	7	Solution shows some stages of working when finding your answer			

Unit 10: Transformations (Foundation)					
Secure (S)	1	Draw reflections from a stated line on a coordinate grid e.g. x = 2			
	2	Describe a reflection by stating the equation of the mirror line			
	3	Describe an enlargement			
	4	Transform a shape using more than one transformation			
	5	Describe combined transformation of a shape on a coordinate grid			
	6	Able to use and combine different areas of maths to solve problems			
	7	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Use a column vector to describe a translation			
	2	Draw a reflection of a shape in a diagonal mirror line			
	3	Rotate a shape on a coordinate grid			
	4	Describe a rotation			
	5	Enlarge a shape by a scale factor with a centre of enlargement			
	6	Identify the scale factor of enlargement			
	7	Find the centre of enlargement			
	8	Extract and use key information to solve a worded problem			
	9	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Translate a shape on a coordinate grid			
	2	Draw a reflection of a shape in a horizontal/vertical mirror line			
	3	Rotate a shape around a given point			
	4	Enlarge a shape by a scale factor without a centre			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 11: Ratio & Proportion (Foundation)					
Secure (S)	1	Use ratios to represent enlargements			
	2	Divide a quantity into 3 parts in a given ratio			
	3	Interpret ratios as fractions to solve problems			
	4	Recognise and use direct proportion on a graph			
	5	Recognise different types of proportion			
	6	Solve worded problems involving direct and inverse proportion			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Create a ratio from a worded problem			
	2	Use ratios to convert metric conversions e.g. maps			
	3	Divide a quantity into 2 parts in a given ratio			
	4	Work out which problem is better value for money			
	5	Solve worded proportion problems			
	6	Extract and use key information to solve a worded problem			
	7	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Write a ratio in its simplest form			
	2	Create a ratio from a pictorial problem			
	3	Write a ratio in the form 1 : n			
	4	Solve simple proportion problems e.g. recipes			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 12: Right Angled Triangles (Foundation)					
Secure (S)	1	Solve problems using Pythagoras' Theorem			
	2	Know the exact value of sine, cosine and tangent for key angles			
	3	Solve problems using trigonometry			
	4	Able to use and combine different areas of maths to solve problems			
	5	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Find the length of a line segment AB			
	2	Remember the formulas for trigonometry			
	3	Use trigonometry to calculate the length of a side			
	4	Use trigonometry to calculate the size of an angle			
	5	Extract and use key information to solve a worded problem			
	6	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Remember Pythagoras Theorem			
	2	Find the length of the hypotenuse using Pythagoras Theorem			
	3	Find the length of a shorter side in right-angled triangles			
	4	Know how to label a triangle for trigonometry			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 13 GCSE 9-1: Probability (Foundation)					
Secure (S)	1	Understand the use of sets and Venn diagrams			
	2	Use Venn Diagrams to work out probabilities			
	3	Complete a Venn diagram given a set of conditions			
	4	Make a prediction of the number of times an event will happen based on probability, including experimental data.			
	5	Complete a tree diagram for independent events			
	6	Complete a tree diagram for conditional events			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Know that the sum of mutually exclusive and exhaustive events = 1			
	2	Use the above to work out probabilities			
	3	Use two way tables (or sample space diagrams) to record the outcomes from two events			
	4	Work out probabilities from sample-space diagrams and two-way tables			
	5	Find probabilities from experimental data			
	6	Use tree diagrams to calculate probability			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Know that the probability is the likelihood of something happening, on a scale of impossible to certain			
	2	Estimate a probability of a certain event occurring, e.g. The probability of the sun shining this week = likely			
	3	Estimate a value of a certain event occurring on a scale of 0-1			
	4	Know that the probability of an outcome = number of ways the outcome can happen ÷ total number of possible outcomes			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 14 GCSE 9-1: Multiplicative Reasoning (Foundation)					
Secure (S)	1	Convert between metric speed measures.			
	2	Use formulae to calculate speed and acceleration.			
	3	Solve growth and decay problems (including compound interest)			
	4	Use inverse proportions.			
	5	Able to use and combine different areas of maths to solve problems			
	6	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Calculate a percentage profit or loss.			
	2	Find the original amount given the final amount as a percentage (reverse percentage).			
	3	Solve compound interest and depreciation problems.			
	4	Calculate with compound measures (speed, density, pressure).			
	5	Use ratio and proportion in measures and proportions.			
	6	Extract and use key information to solve a worded problem			
	7	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Calculate a percentage of a given number.			
	2	Calculate a given number as a percentage of another.			
	3	Use a calculator to work out percentages.			
	4	Calculate average speed, distance and time.			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 15: Constructions and Loci (Foundation)					
Secure (S)	1	Use angles at parallel lines to work out bearings			
	2	Solve problems involving bearings and scale factor			
	3	Identify SSS, ASA, RHS, SAS triangles and use to describe congruence			
	4	Construct a regular polygon inside a circle			
	5	Draw loci for the path of points that follow a given rule			
	6	Identify regions bounded by loci to solve practical problems			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Identify and sketch planes of symmetry on 3D shapes			
	2	Sketch 3D shapes from their plans and elevations			
	3	Use scales on maps and diagrams to work out lengths and distances			
	4	Draw lengths and distances correctly on given scale drawings			
	5	Find and use three-figure bearings			
	6	Make accurate drawings of triangles with ruler, compass and protractor			
	7	Bisect angles and lines using ruler and compass			
	8	Extract and use key information to solve a worded problem			
	9	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Recognise 3D shapes and their properties			
	2	Describe 3D shapes using correct mathematical terminology			
	3	Draw plans and elevations of 3D shapes			
	4	Measure lengths and angles accurately			
	5	Understand congruent			
	6	Recognise nets and make accurate drawings of nets of common 3D objects.			
	7	Choose the correct maths to solve a problem			
	8	Solution shows some stages of working when finding your answer			

Unit 16: Quadratic Equations and Graphs (Foundation)					
Secure (S)	1	realise that (X+3) squared means (x-3)(x-3) and multiply out with a grid			
	2	factorise quadratic expressions that start with a number in front of x squared			
	3	solve a quadratic equation remembering the pos and neg square root, leaving answer as a surd			
	4	solve more complex quadratic equations by factorising			
	5	Able to use and combine different areas of maths to solve problems			
	6	Solutions are complete and justified with step-by-step working			
Developing (D)	1	multiply out a pair of brackets like (2x+5)(3x-7) with a grid			
	2	use a drawn graph to solve quadratic equations			
	3	identify roots, intercepts and turning points of quadratic graphs			
	4	factorise quadratic expressions that start x squared			
	5	factorise a quadratic by difference of 2 squares			
	6	solve quadratic equations by factorising			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	recognise a linear and quadratic graph			
	2	multiply out a pair of brackets like (x+2)(x-3) with a grid			
	3	recognise a quadratic expression			
	4	draw a quadratic graph			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 17: Perimeter, Area and Volume (Foundation)					
Secure (S)	1	Solve problems involving areas and perimeters of 2D shapes			
	2	Solve problems involving sectors of circles			
	3	Work out the volume and surface areas of cones			
	4	Work out the volume and surface areas of pyramids			
	5	Work out the volume and surface areas of spheres			
	6	Work out the volume and surface area of composite solids			
	7	Able to use and combine different areas of maths to solve problems			
	8	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Solve reverse problems for circumference and area of a circle			
	2	Give answers to circle geometry problems in terms of π			
	3	Work out areas of semicircles and quarter circle and perimeters			
	4	Work out the volume of cylinders			
	5	Work out the surface area of cylinders			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Names parts of a circle			
	2	Calculate the circumference of a circle			
	3	Calculate the area of a circle			
	4	Work out the volume of a cuboid/cube			
	5	Work out the surface area of a cuboid/cube			
	6	Choose the correct maths to solve a problem			
	7	Solution shows some stages of working when finding your answer			

Unit 18: Fractions, Indices and Standard Form (Foundation)					
Secure (S)	1	Solve problems involving multiplying and dividing mixed numbers and fractions			
	2	Use negative indices to represent reciprocals			
	3	Evaluate and use index laws			
	4	Multiply and divide numbers in standard form without a calculator			
	5	Add and subtract numbers in standard form			
	6	Able to use and combine different areas of maths to solve problems			
	7	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Multiply mixed number fractions			
	2	Divide mixed number fractions			
	3	Remember the index laws			
	4	Write small numbers in standard form			
	5	Multiply and divide numbers in standard form with a calculator			
	6	Convert numbers from standard form with negative powers to ordinary numbers			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Multiply fractions			
	2	Divide fractions			
	3	Express numbers in index form e.g. 3^4			
	4	Write large numbers in standard form			
	5	Convert large numbers from standard form into ordinary numbers			
	6	Choose the correct maths to solve a problem			
	7	Solution shows some stages of working when finding your answer			

Unit 19: Similarity and Enlargement (Foundation)					
Secure (S)	1	Understand the similarity of regular shapes			
	2	Calculate perimeters of similar shapes			
	3	Add and subtract vectors			
	4	Find the magnitude of a vector			
	5	Find multiples of a vector			
	6	Solve problems with a combination of vectors			
	7	Construct proofs of congruency			
	8	Construct proofs of similarity			
	9	Able to use and combine different areas of maths to solve problems			
	10	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Use similarity to find missing lengths			
	2	Use similarity to solve angle problems			
	3	Use congruence to workout unknown angles			
	4	Use congruence to workout unknown lengths			
	5	Draw a vector diagram			
	6	Extract and use key information to solve a worded problem			
	7	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Recognise similar shapes			
	2	Calculate the scale factor of enlargement			
	3	Recognise congruent shapes			
	4	Describe a vector from a column vector			
	5	Choose the correct maths to solve a problem			
	6	Solution shows some stages of working when finding your answer			

Unit 20: More Algebra (Foundation)					
Secure (S)	1	Plot a reciprocal graph			
	2	Plot a cubic graph			
	3	Interpret a plotted graph			
	4	Solve simultaneous equations algebraically			
	5	Solve simultaneous equations from a written problem			
	6	Write simultaneous equations from a worded problem			
	7	Change the subject of a formula			
	8	Able to use and combine different areas of maths to solve problems			
	9	Solutions are complete and justified with step-by-step working			
Developing (D)	1	Complete coordinate table for a quadratic graph			
	2	Plot a quadratic graph			
	3	Complete a coordinate table for a reciprocal graph			
	4	Complete a coordinate table for a cubic graph			
	5	Write equations from a worded problem			
	6	Solve simultaneous equations by graphing linear equations			
	7	Extract and use key information to solve a worded problem			
	8	Solution shows some ordered and logical stages of working when finding your answer			
Foundation (F)	1	Identify expressions and equations			
	2	Identify formulae's and identities			
	3	Recognise different types of graphs e.g. quadratic, linear, cubic, reciprocal			
	4	Choose the correct maths to solve a problem			
	5	Solution shows some stages of working when finding your answer			