



Department: Maths

Curriculum Intent Statement

Our Curriculum Vision & Purpose

A rich, coherent and inter-leaving Mathematics curriculum is at the forefront of everything we do. Mathematics is a process of enquiry, reasoning and problem solving – all valuable skills that help children to make sense of the world around them, and function within society.

We encourage students to develop mathematical behaviour and as such our curriculum encourages students to develop a knowledge-rich understanding making links across all curriculum areas.

We provide all pupils the opportunities to learn and practice the mathematical skills they will need in everyday life and function successfully in society.

Powerful Knowledge

Through a balanced and progressive curriculum we develop the mathematical knowledge of the students and their confidence to use these transferrable abilities and skills.

We take the primary disciplines of Mathematics: ratio, number, algebra, data to develop problem solving and social and communication skills.

Curriculum Features

The curriculum allows for a fluid progression from year to year, building on and developing the student's confidence in mathematical thinking.

In all years, students are the opportunity to think and behave mathematically. The focus is on empowering students to notice, make connections, explain, justify, conjecture, prove and apply Mathematics.

We use a range of learning strategies to allow our children to become confident mathematicians and encourage quality mathematical dialogue in the classroom. We will develop fluency and deepen the thinking of students in all aspects of maths. Children will see the importance and purpose mathematics has in their everyday lives.



Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

	Term / Duration	Topic & Main Content Overview	Assessment Task/Focus & Objectives	Powerful Knowledge for Year 7 (referenced to topic as appropriate)
Year 7 Scheme Overview	Term 1 7 Weeks Max. No. Lessons: 28	<p>Number skills: Mental maths, Addition and subtraction, Multiplication, Division, Finance: Time and money, Negative numbers, Factors, multiples and primes, Square and triangle numbers</p> <p>Analysing and displaying data: Mode, median and range, Displaying data, Grouping data, Averages and comparing data, Line graphs and more bar charts, Spreadsheets</p>	<p>Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's based on topics covered during term one and assessment objectives:</p> <p>AO1- using and applying standard techniques.</p> <p>AO2- reasoning, interpreting and communicating mathematically.</p> <p>AO3- solving non-routine problems in context.</p>	<p>Pupils will be able to solve numeracy problems that they will meet in their own lives such as bus timetables, pocket money and understand negative numbers within temperature and finance. Pupils will be able to make meaningful interpretations of statistical data during their life.</p>
	Term 2 8 Weeks Max. No. Lessons: 32	<p>Expressions, functions and formulae: Functions, Simplifying expressions 1, Simplifying expressions 2, Writing expressions, STEM: Substituting into formulae, Writing formulae</p> <p>Decimals and measures: Decimals and rounding, Length, mass and capacity, Scales and coordinates, Working with decimals mentally, Working with decimals, Perimeter, Area, STEM: More units</p>	<p>Continuous formative assessment via questioning, self and peer assessment. Half-termly topic test at the end of each topic during that term.</p>	<p>Pupils will gain the skill of manipulating algebra, which provides the foundation for a wide range of scientific and engineering jobs. They will gain the knowledge to convert various measures and be able to read scales helping with many later life situations.</p>
	Term 3 6 Weeks Max. No. Lessons: 24	<p>Fractions: Comparing fractions, Simplifying fractions, Working with fractions, Fractions and decimals, Understanding percentages, Percentages of amounts</p> <p>Probability: The language of probability, Calculating probability, More probability calculations, Experimental probability, Finance: Expected outcomes</p>	<p>Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1, AO2 and AO3 objectives with focus on all topics covered term one and two.</p>	<p>Understanding the use of fraction, decimals and percentages will allow pupils to calculate various money based problems. Understanding probability skills will help students assess risk factors and make informed decisions</p>

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Assessment Format to follow whole-school expectations (MCQs for Content Knowledge & Understanding, GCSE-style Qs. for Application of Skills).



Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

Term 4 7 Weeks Max. No. Lessons:28	Ratio and proportion: Direct proportion, Writing ratios, Using ratios, Scales and measures, Proportions and fractions, Proportions and percentages Lines and angles: Lines, angles and triangles, Estimating, measuring and drawing angles, Drawing triangles accurately, STEM: Calculating angles, Angles in a triangle, Quadrilaterals	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	The ability to manipulate ratios will allow students to scale recipes when cooking for different groups of people as well as being able to share money fairly. Being able to calculate, measure and draw angles accurately is an important skill in graphic design and architecture.
Term 5 4 Weeks Max. No. Lessons: 16	Sequences and graphs: Sequences, Pattern sequences, Coordinates, Extending sequences, Straight-line graphs, Position-to-term rules	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	The ability to recognise patterns and sequences allows students to develop their problem solving skills. The use of coordinates provides the foundation for map reading and orienteering.
Term 6 7 Weeks Max. No. Lessons: 28	Transformations: Congruency and enlargements, Symmetry, Reflection, Rotation, Translations and combined transformations.	Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1, AO2 and AO3 objectives with focus on all topics covered in previous terms.	Recognising how a transformation changes the position of a 2D shape can be used to create a wide variety of artistic designs.

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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

	Term / Duration	Topic & Main Content Overview	Assessment Task/Focus & Objectives	Powerful Knowledge for Year 8 (referenced to topic as appropriate)
Year 8 Scheme Overview	Term 1 7 Weeks Max. No. Lessons: 28	<p>Number Skills: Negative numbers, Calculations, Calculating with negative integers, Powers and roots, Powers, roots and brackets</p> <p>Factors and multiples: Number rules and relationships, Multiples, Multiplication, Division, Solving problems, Factors and primes, Common factors and multiples.</p>	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	Pupils will be able to solve numeracy problems and secure skills that they will meet in their own lives such as temperatures.
	Term 2 8 Weeks Max. No. Lessons: 32	<p>Working with powers: simplifying expressions, expanding, substituting and solving.</p> <p>Analysing and displaying data: Tables and pictograms, Bar charts, Grouped data, pie charts, Mode and modal class, Range and median, Mean, Scatter graphs and correlation.</p> <p>2D and 3D shapes: Plans and elevations, Surface area of prisms, Volume of prisms, Circumference of a circle, Area of a circle, Cylinders, Pythagoras' theorem.</p>	Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's based on topics covered during term one and assessment objectives: AO1- using and applying standard techniques. AO2- reasoning, interpreting and communicating mathematically. AO3- solving non-routine problems in context.	Pupils will be able to make meaningful interpretations of statistical data during their life. Pupils will gain the skill of manipulating algebra which provides the foundation for a wide range of scientific and engineering jobs. Finance skills will help all students understand and overcome most necessary life calculations.
	Term 3 6 Weeks Max. No. Lessons: 24	<p>Fractions, decimals and percentages: Comparing fractions, Fractions of amounts, Adding and subtracting fractions, Fractions and percentages, Calculating percentages, STEM: Percentages and proportion. Estimates and measures, Decimal numbers, Metric units, Adding and subtracting , Multiplying decimals, Ordering and rounding decimals, recurring decimals, percentage change, Finance, Recurring decimals, Using percentages,</p>	Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1 , AO2 and AO3 objectives with focus on all topics covered in previous terms.	Pupils will be able to make meaningful interpretations of statistical data during their life. They will be able to apply their knowledge of percentages to understand savings when purchasing discounted products.

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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

		Percentage change, FINANCE: Repeated percentage change Probability: The language of probability, Outcomes, Probability calculations, Experimental probability, FINANCE: Comparing probabilities		
Term 4 7 Weeks Max. No. Lessons:28		Sequences and graphs: Sequences, The nth term, Pattern sequences, Coordinates and line segments, Plotting linear graphs Finding the gradient, $y = mx + c$, Parallel and perpendicular lines, Inverse functions, STEM: Non-linear graphs, Real-life graphs, Coordinates, Graphs of functions, STEM: Scientific graphs.	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	Pupils will gain the skill of manipulating algebra which provides the foundation for a wide range of scientific and engineering jobs.
Term 5 4 Weeks Max. No. Lessons: 16		Scale drawings and measures: Maps and scales, Bearings, Scales and ratio, Congruent and similar shapes, Solving geometry problems.	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	Being able to calculate, measure and draw angles accurately is an important skill in graphic design and architecture.
Term 6 7 Weeks Max. No. Lessons: 28		Transformations: Reflection and translation, Rotation, Enlargement, More enlargement, STEM: Combining transformations, 2D shapes and 3D solids Loci and constructions: Accurate drawings, Constructing shapes, Constructions, Loci.	Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1, AO2 and AO3 objectives with focus on all topics covered in previous terms.	Recognising how a transformation changes the position of a 2D shape can be used to create a wide variety of artistic designs. Being able to calculate, measure and draw angles accurately is an important skill in graphic design and architecture.

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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

	Term / Duration	Topic & Main Content Overview	Assessment Task/Focus & Objectives	Powerful Knowledge for Year 9 (referenced to topic as appropriate)
Year 9 Scheme Overview	Term 1 7 Weeks Max. No. Lessons: 28	<p>Foundation- Number: Integers and place value, Decimals, Indices, powers and roots, Factors, multiples and primes</p> <p>Higher- Number: Integers and place value, Decimals, Indices, powers and roots, Factors, multiples and primes, Reciprocals, Rounding, Standard form, Surds</p>	<p>Continuous formative assessment via questioning, self and peer assessment.</p> <p>End of term assessment including MCQ's based on topics covered during term one and assessment objectives:</p> <p>AO1- using and applying standard techniques.</p> <p>AO2- reasoning, interpreting and communicating mathematically.</p> <p>AO3- solving non-routine problems in context.</p>	<p>Pupils will be able to solve numeracy problems that they will meet in their own lives such as reading timetables understanding finance. It will allow the pupils to make meaningful estimations and have the possibility to work within the engineering world.</p>
	Term 2 8 Weeks Max. No. Lessons: 32	<p>Foundation- Algebra: The basics algebra skill, Expanding and factorising single brackets, Expressions and substitution into formulae, Equation, Inequalities, Sequences</p> <p>Higher- Algebra: The basics algebra skill, Expanding and factorising single brackets, Expressions and substitution into formulae, Equation, Inequalities, Sequences</p> <p>-Interpreting and representing data: Averages and range, Representing and interpreting data, Scatter graphs</p>	<p>Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.</p>	<p>Pupils will gain the skill of manipulating algebra and numbers values which provides the foundation for a wide range of scientific and engineering jobs. This also allows pupils to easily convert results of outcomes that may occur in life.</p>
	Term 3 6 Weeks Max. No. Lessons: 24	<p>Foundation- Graph, tables and charts: Bar charts, Pictograms, Mode, Mean, Median graphs, Pie charts, Scatter graphs, Stem and leaf diagrams, Time series graphs.</p>	<p>Continuous formative assessment via questioning, self and peer assessment.</p> <p>End of term assessment including MCQ's using AO1, AO2 and AO3</p>	<p>Pupils that have the knowledge to interpret charts will allow them to create supported, informed decisions within business.</p>

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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

		Higher- Fractions, Ratio and Percentages: Converting between fractions, decimals and percentages, Calculating with fraction, percentage change, reverse percentages, finding the original amount, Ratios, find an amount given a ratio, scale up recipes, direct proportion	objectives with focus on all topics covered in previous terms.	
Term 4 7 Weeks Max. No. Lessons: 28		Foundation- Averages and range: Statistics and sampling, calculating and comparing averages. -Fractions and percentages: Converting between Fractions, decimals and percentages, finding Percentages of amounts, percentage change, fraction calculations Higher- Graphs: Graphs: Basic graph knowledge and real-life graphs, Linear graphs and coordinate geometry, Quadratic, cubic and other graphs. -Area and Volume: Perimeter, area and circles, 3D forms and volume, cylinders, cones and spheres, Accuracy and bounds.	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	Pupils will be able to make meaningful interpretations of statistical data during their life. Pupils will use straight line graphs in a variety of situations including converting between currencies and creating a business plan.
Term 5 4 Weeks Max. No. Lessons: 16		Foundation- Angles: Properties of shapes, parallel lines and angle facts, Interior and exterior angles of polygons Higher- Angles and trigonometry: Polygons, angles and parallel lines, Interior and Exterior angles, Pythagoras' Theorem and trigonometry.	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	Recognising how a transformation changes the position of a 2D shape can be used to create a wide variety of artistic designs.
Term 6 7 Weeks Max. No. Lessons: 28		Foundation- Perimeter, area and volume: Perimeter and area, 3D forms and volume Higher- Transformations and constructions: Rotate, Reflect, Translate, Enlarge, Combined transformations, Constructions, Loci, Bearings	Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1 , AO2 and AO3 objectives with focus on all topics covered in previous terms.	They will gain the knowledge to convert various measures and be able to read scales helping with many later life situations. Pupils will be able to solve numeracy problems that they will meet in their own lives such as measurements buy carpet and furniture in their future home.

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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

	Term / Duration	Topic & Main Content Overview	Assessment Task/Focus & Objectives	Powerful Knowledge for Year 10 (referenced to topic as appropriate)
Year 10 Scheme Overview	Term 1 7 Weeks Max. No. Lessons: 28	<p>Foundation- Number: Integers and place value, Decimals, Indices, powers and roots, Factors, multiples and primes</p> <p>-Algebra: The basics algebra skill, Expanding and factorising single brackets, Expressions and substitution into formulae, Equation,</p> <p>Higher: Number: Integers and place value, Decimals, Indices, powers and roots, Factors, multiples and primes, Reciprocals, Rounding, Standard form, Surds.</p> <p>Algebra: Expanding and factorising single brackets, Expressions and substitution into formulae, Equation, Rearranging formulae, Solving equations.</p>	Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.	Pupils will gain the skill of manipulating algebra and numbers values which provides the foundation for a wide range of scientific and engineering jobs. This also allows pupils to easily convert results of outcomes that may occur in life.
	Term 2 8 Weeks Max. No. Lessons: 32	<p>Foundation- Graph, tables and charts: Bar charts, Pictograms, Mode, Mean, Median graphs, Pie charts, Scatter graphs, Stem and leaf diagrams, Time series graphs.</p> <p>-Fractions and percentages: Converting between Fractions, decimals and percentages, finding Percentages of amounts, percentage change, fraction calculations</p> <p>Higher- Fractions, Ratio and percentages: Calculating with fractions, Converting between Fractions, decimals and percentages, Finding percentages of amounts, Percentage change, Writing ratios, Using ratios, Measures, Comparing ratios, Percentages, indirect and direct proportion problems.</p> <p>-Angles and trigonometry: Properties of shapes, parallel lines and angle facts, Interior and exterior angles of polygons, Pythagoras theorem, Trigonometry</p>	Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's based on topics covered during term one and assessment objectives: AO1- using and applying standard techniques. AO2- reasoning, interpreting and communicating mathematically. AO3- solving non-routine problems in context.	Understanding the use of fraction, decimals and percentages will allow pupils to calculate various money based problems. The ability to recognise patterns and sequences allows students to develop their problem solving skills. Understanding the use of fraction, decimals and percentages will allow pupils to calculate various money based problems.

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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

<p>Term 3 6 Weeks Max. No. Lessons: 24</p>	<p>Foundation- Equations, inequalities and sequences: Expanding and factorising single brackets, Expressions and substitution into formulae, Equation, Inequalities, Sequences. Angles: Properties of shapes, parallel lines and angle facts, Interior and exterior angles of polygons Higher- Probability: The language of probability, Calculating probability, More probability calculations, Experimental probability, Finance: Expected outcomes, Venn diagrams, Tree diagrams. -Area and volume: Surface area of prisms, Volume of prisms, Circumference of a circle, Area of a circle, Cylinders, spheres, Cones, Accuracy and bounds.</p>	<p>Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1, AO2 and AO3 objectives with focus on all topics covered in previous terms.</p>	<p>Pupils will be able to solve numeracy problems that they will meet in their own lives such as measurements needed to cook recipes and buy carpet and furniture in their future home. Pupils will use straight line graphs in a variety of situations including converting between currencies and creating a business plan.</p>
<p>Term 4 7 Weeks Max. No. Lessons: 28</p>	<p>Foundation-Perimeter, area and volume: Perimeter and area, 3D forms and volume -Graphs: Real-life graphs, Straight-line graphs -Right angled triangles: Pythagoras theorem, Trigonometry Higher -Averages and ranges: Statistics, sampling, Means, Medians, Modes, Ranges, Grouped data, Mode and modal class, Range and median and mean from grouped data, Scatter graphs and correlation.</p>	<p>Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's using AO1, AO2 and AO3 objectives with focus on all topics covered in previous terms.</p>	<p>Understanding the use of fraction, decimals and percentages will allow pupils to calculate various money based problems. By understanding speed, distance and time it allows the everyday use of planning journeys and events.</p>
<p>Term 5 4 Weeks Max. No. Lessons: 16</p>	<p>Foundation: - Averages and ranges: Statistics, sampling, Means, Medians, Modes, Ranges -Multiplicative reasoning: Percentages, Growth and Decay, Compound measures, Distance, speed and time, Proportion. Higher- Equations and inequalities: Solving quadratic and simultaneous equations, solving inequalities.</p>	<p>Continuous formative assessment via questioning, self and peer assessment. Half termly topic test at the end of each topic during that term.</p>	<p>The ability to manipulate ratios will allow students to scale recipes when cooking for different groups of people as well as being able to share money fairly. Percentages growth and compound will allow pupils to calculate various money based problems and make informed decisions.</p>

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Department: Maths

	<p>Term 6 7 Weeks Max. No. Lessons: 28</p>	<p>Foundation- Ratio and proportion: Writing ratios, Using ratios, Measures, Comparing ratios, Percentages, indirect and direct proportion problems.</p> <p>- Transformations: Rotate, Reflect, Translate, Enlarge, Combined transformation.</p> <p>Higher- Transformations and Constructions: Rotate, Reflect, Translate, Enlarge, Combined transformation, Constructing triangles, bisectors, Loci, Bearings</p> <p>-Similarity and Congruence: Similarity in shapes, geometric proofs and Congruence.</p>	<p>Continuous formative assessment via questioning, self and peer assessment.</p> <p>End of term assessment based on previous past GCSE covering AO1, AO2 and AO3 objectives with focus on all topics covered in previous years.</p>	<p>Understanding probability skills will help students assess risk factors and make informed decisions. It allows the analysis for businesses to make the optimum progress possible.</p> <p>Being able to construct, measure and draw angles accurately is an important skill in graphic design and architecture.</p>
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Continuous Development Cycle

Curriculum Knowledge & Assessment Overview 2019-20

Department: Maths

	Term / Duration	Topic & Main Content Overview	Assessment Task/Focus & Objectives	Powerful Knowledge for Year 11 (referenced to topic as appropriate)
Year 11 Scheme Overview	Term 1 7 Weeks Max. No. Lessons: 28	<p>Foundation- Basics in all areas listed covered: Number, Algebra, Geometry, Statistics, Percentages, Indices and Roots</p> <p>Higher- Equations and inequalities: Solving quadratic and simultaneous equations, Inequalities</p> <p>- Equations and graphs- Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics</p>	<p>Continuous formative assessment via questioning, self and peer assessment. End of term assessment including MCQ's based on topics covered during term one and assessment objectives:</p> <p>AO1- using and applying standard techniques.</p> <p>AO2- reasoning, interpreting and communicating mathematically.</p> <p>AO3- solving non-routine problems in context.</p>	<p>Pupils will use straight line graphs in a variety of situations including converting between currencies and creating a business plan. Pupils will gain the skill of manipulating algebra which provides the foundation for a wide range of scientific and engineering jobs.</p>
	Term 2 8 Weeks Max. No. Lessons: 32	<p>Foundation: Algebraic Manipulation, Straight line graphs, Angle facts, Accuracy, Circles, Equations and inequalities</p> <p>Higher:</p>	<p>Continuous formative assessment via questioning, self and peer assessment. End of term assessment based on previous past GCSE covering AO1, AO2 and AO3 objectives with focus on all topics covered in previous years.</p>	<p>Pupils will gain the skill of manipulating algebra which provides the foundation for a wide range of scientific and engineering jobs. Pupils will use straight line graphs in a variety of situations including converting between currencies and creating a business plan. Proving mathematical situations builds the resilience within students to not give up and work hard to achieve a difficult problem.</p>
	Term 3 6 Weeks Max. No. Lessons: 24	<p>Foundation: Probability, Sequences, Constructions, Quadratics including graphs, Ratio and compound measures.</p> <p>Higher- Complex algebra: Rearranging, Solving, Algebraic fractions, Rationalising surds, Proof.</p>	<p>Continuous formative assessment via questioning, self and peer assessment.</p>	<p>Pupils will be able to solve numeracy problems that they will meet in their own lives such as measurements needed to cook recipes and buy</p>

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		<p>-Transformations : All transformations including combined, Functions of graphs, Constructions, Loci and bearings</p> <p>-Circle theorems: All circle theorems and geometry.</p>		carpet and furniture in their future home.
Term 4 7 Weeks Max. No. Lessons:28	<p>Foundation: Proportion, Simultaneous equations, Pythagoras' theorem, Statistical graphs and measures, Transformations, Vectors, Bivariate data, Trigonometry, Volumes and surface area</p> <p>Higher: Revision</p>	Continuous formative assessment via questioning, self and peer assessment. End of term assessment based on previous past GCSE covering AO1 , AO2 and AO3 objectives with focus on all topics covered in previous years.	Recognising how a transformation changes the position of a 2D shape can be used to create a wide variety of artistic designs. Pupils will be able to solve numeracy problems that they will meet in their own lives such as measurements needed to measure, build and buy objects in their future..	
Term 5 4 Weeks Max. No. Lessons: 16	GCSE Exams			
Term 6 7 Weeks Max. No. Lessons: 28	GCSE Exams			

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