

KS3

<b>YEAR 7</b>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Content</b></p> <p><b>Knowledge</b></p> <p><b>Skills</b></p>	<p><b><u>Sequences</u></b> Describe and continue a sequence given diagrammatically Predict and check the next term(s) of a sequence Represent sequences in tabular and graphical forms Recognise the difference between linear and non-linear sequences Continue numerical linear and non-linear sequences Explain the term to term rule of numerical sequences in words Find missing numbers within sequences</p> <p><b><u>Understand and use algebraic notation</u></b> Given a numerical input, find the output of a single function machine Use inverse operations to find the input given the output Use diagrams and letters to generalise</p>	<p><b><u>Place Value and ordering integers and decimals</u></b> Recognise the place value of any number in an integer up to one billion Understand and write integers up to one billion in words and figures Work out intervals on a number line Position integers on a number line Round integers to the nearest power of ten Compare two numbers using =, ≠, &lt;, &gt;, ≤, ≥ Order a list of integers Find the range and median of a set of numbers Understand place value for decimals Position decimals on a number line Compare and order any number up to one billion Round a number to 1 sf</p>	<p><b><u>Solving problems with addition and subtraction</u></b> Properties of addition and subtraction Mental strategies for addition and subtraction Use formal methods for addition of integers and decimals Use formal methods for subtraction of integers and decimals Solve problems in the context of perimeter Solve financial maths problems Solve problems involving tables and timetables Solve problems with frequency trees, bar charts and line charts Add and subtract numbers given in standard form</p> <p><b><u>Solving problems</u></b></p>	<p><b><u>Operations and equations with directed number</u></b> Understand and use representations of directed numbers Order directed numbers using lines and appropriate symbols Perform calculations that cross zero Add and subtract directed numbers Multiplication and division of directed numbers Use a calculator for directed number calculations Evaluate algebraic expressions with directed number Introduction to two step equations Solve two step equations Use order of operations with directed numbers Understand that positive numbers have more than one square root</p>	<p><b><u>Constructing, measuring and using geometric notation</u></b> Understand and use letter and labelling conventions including those for geometric figures Draw and measure line segments including geometric figures Understand angles as a measure of a turn Classify angles Measure and draw angles up to 180° Draw and measure angles between 180° and 360° Identify perpendicular and parallel lines Recognise types of triangle and quadrilateral Identify polygons up to a decagon Construct triangles using SSS, SAS and ASA Construct more</p>	<p><b><u>Developing number sense</u></b> Know and use mental addition and subtraction strategies for integers Know and use mental multiplication and division strategies for integers Know and use mental arithmetic strategies for decimals and fractions Use factors to simplify calculations Use estimation as a method for checking mental calculations Use known number facts to derive other facts Use known algebraic facts to derive other facts Know when to use a mental strategy, formal written method or a calculator</p> <p><b><u>Sets and</u></b></p>

	<p>number operations Use diagrams and letters with single function machines Find the function machine given a simple expression Substitute values into single operation expressions Find numerical inputs and outputs for a series of two function machines Use diagrams and letters with a series of two function machines Find the function machines given a two step expression Substitute values into two step expressions Generate sequences given an algebraic rule Represent one and two step functions graphically</p> <p><b><u>Equality and Equivalence</u></b> Understand the meaning of equality Understand and use fact families, numerically and algebraically Solve one step linear equations involving <math>+/-/x/÷</math> using inverse operations Understand the meaning of like and unlike terms</p>	<p>Write 10, 100 etc as powers of ten Write positive integers in the form <math>A \times 10^n</math> Investigate negative powers of ten Write decimals in the form <math>A \times 10^n</math></p> <p><b><u>Fraction, decimal and percentage equivalence</u></b> Represent tenths and hundredths as diagrams and on number lines Interchange between fractional and decimal number lines Convert between fractions and decimals - tenths and hundredths, fifths and quarters, eighths and thousandths Understand the meaning of percentage using a hundred square Convert fluently between simple fractions, decimals and percentages Use and interpret pie charts Represent any fraction as a diagram Represent fractions on number lines Identify and use simple equivalent fractions</p>	<p><b><u>with multiplication and division</u></b> Properties of multiplication and division Understand and use factors and multiples Multiply and divide integers and decimals by powers of 10 Multiply by 0.1 and 0.01 Convert metric units Use formal methods to multiply and divide integers and decimals Understand and use order of operations Solve problems using area of rectangles, parallelograms, triangles and trapezia Solve problems using the man Explore multiplication and division in algebraic expressions</p> <p><b><u>Fractions and percentages of amounts</u></b> Find a fraction of a given amount Use a given fraction to find the whole and/or other fractions Find a percentage of</p>	<p>Explore higher powers and roots</p> <p><b><u>Addition and subtraction of fractions</u></b> Understand representations of fractions Convert between mixed numbers and fractions Add and subtract unit fractions with the same denominator Add and subtract fractions from integers expressing the answer as a single fraction Understand and use equivalent fractions Add and subtract fractions where denominators share a common multiple Add and subtract fractions with any denominator Add and subtract improper fractions and mixed numbers Use fractions in algebraic contexts Use equivalence to add and subtract decimals and fractions Add and subtract simple algebraic fractions</p>	<p>complex polygons Interpret simple pie charts using proportion and using a protractor Draw pie charts</p> <p><b><u>Developing geometric reasoning</u></b> Understand and use the sum of angles at a point Understand and use the sum of angles on a straight line Understand and use the equality of vertically opposite angles Know and apply the sum of angles in a triangle and a quadrilateral Solve angle problems using properties of triangles and quadrilaterals Solve complex angle problems Find and use the angle sum of any polygon Investigate angles in parallel lines Understand and use parallel line angle rules Use known facts to obtain simple proofs</p>	<p><b><u>probability</u></b> Identify and represent sets Interpret and create Venn diagrams Understand and use the intersection and union of sets Understand and use the complement of a set Know and use the vocabulary of probability Generate sample spaces for single events Calculate the probability of a single event Know that the sum of probabilities of all possible outcomes is 1</p> <p><b><u>Prime numbers and proof</u></b> Find and use multiples Identify factors of numbers and expressions Recognise and identify prime numbers Recognise square and triangular numbers Find common factors of a set of numbers including the HCF Find common multiples of a set of</p>
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	<p>Understand the meaning of equivalence</p> <p>Simplify algebraic expressions by collecting like terms, using the <math>\equiv</math> symbol</p>	<p>Understand fractions as division</p> <p>Explore fractions above one, decimals and percentages</p>	<p>a given amount using mental methods and a calculator</p> <p>Solve problems with fractions greater than 1 and percentages greater than 100%</p>			<p>numbers including the LCM</p> <p>Write a number as a product of its prime factors</p> <p>Use a Venn diagram to calculate the HCF and LCM</p> <p>Make and test conjectures</p> <p>Use counterexamples to disprove a conjecture</p>
Key Questions	<p>How is each term in the sequence different from the previous term?</p> <p>How is a linear sequence different from a non linear sequence?</p> <p>What does the expression <math>6a</math> mean?</p> <p>Are <math>t + 5</math> and <math>5 + t</math> always, sometimes or never the same?</p> <p>If you know one addition fact, how many subtraction facts do you know?</p> <p>What's the difference between an equation and an expression?</p>	<p>Why do we round numbers?</p> <p>For a set of integers, is the longest number always the largest number?</p> <p>How do we work out the size of an interval on a number line?</p> <p>Is it possible to find 110% of an amount?</p> <p>What does 100% mean? What does 110% mean?</p> <p>How is a fraction related to a decimal?</p> <p>How is a percentage related to a fraction?</p>	<p>If we know <math>x = y + z</math>, what other addition facts do we know? What subtraction facts do we know?</p> <p>Is the column method always the best way to solve an addition problem?</p> <p>How do you calculate profit?</p> <p>If <math>a = b \times c</math>, what other multiplication and division facts do we know?</p> <p>How do you find one-tenth of a number?</p> <p>How do you convert km to m and kg to g? What's the same, what's different?</p>	<p>Why is adding a negative the same as subtracting?</p> <p>What is the difference between <math>-2</math> squared and <math>(-2)</math> squared?</p> <p>How do we substitute values into an expression?</p> <p>What is the correct order of operations?</p> <p>What is the inverse of multiplication/squaring a number?</p> <p>Does 5 have a square root?</p> <p>How do you know each part is equal when they look different?</p>	<p>How can we measure the size of a turn?</p> <p>How can we describe the direction of a turn?</p> <p>How do you choose which scale to use on a protractor?</p> <p>When are two or more lines parallel? When are two lines perpendicular?</p> <p>When is a polygon regular?</p> <p>What do pie charts show us?</p> <p>Which angle facts do you know?</p> <p>How did you decide which angle facts to</p>	<p>Does multiplication always make a number bigger?</p> <p>Why is estimation useful?</p> <p>How can I change both numbers in a division but keep the answer the same?</p> <p>How many circles or ellipses are needed in a Venn diagram?</p> <p>Do all sets have a complement?</p> <p>Can a probability be 120% why or why not?</p> <p>Does zero have any multiples?</p> <p>Explain the difference between a</p>

			<p>How do you estimate the answer to a decimal multiplication?</p> <p>How can I work out a number if I know a fraction of the number?</p>	<p>How do we find a fraction that is equivalent to a given fraction?</p>	<p>apply?</p> <p>How can you calculate the angle sum of any polygon?</p>	<p>factor and a number</p> <p>When you add together two prime numbers, do they always give an even number?</p>
Assessment	Half term assessment on half term 1 topics	End of term assessment - all topics from term 1	Half term assessment on half term 3 topics	End of term assessment - all topics from year so far	Half term assessment on half term 5 topics	End of year assessment - covers all topics across the year
Literacy/numeracy/SMSC/Character	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work
Enrichment opportunities and futures	<p>Junior maths challenge</p> <p>Chess club</p> <p>Maths homework club</p> <p>STEM club</p>					

<b>Year 8</b>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content Knowledge Skills	<p><b><u>Ratio and Scale</u></b> Understand and use ratio notation Divide a value into a given ratio Express ratios in their simplest integer form, and in the form 1:n Understand <math>\pi</math> as the ratio between diameter and circumference Understand gradient as a line of ratio (H)</p> <p><b><u>Multiplicative change</u></b> Solve problems involving direct proportion Explore conversion graphs and convert between currencies Understand scale factors as multiplicative representations Draw and interpret scale diagrams Interpret maps using scale factors and ratios</p> <p><b><u>Multiplying and dividing fractions</u></b> Multiply a fraction by an integer Find the product of a pair of unit fractions and of any fractions Divide an integer by a fraction Divide a fraction by a unit fraction Understand and use</p>	<p><b><u>Working in the cartesian plane</u></b> Work with coordinates in all four quadrants Identify and draw lines that are parallel to the axes Recognise and use lines of the form <math>y = kx</math>, and link to direct proportion problems Explore the gradient of the line <math>y = kx</math> Recognise and use the lines of the form <math>y = x + a</math> Explore graphs with a negative gradient Link graphs to linear sequences Plot graphs of the form <math>y = mx + c</math> Find the midpoint of a line segment</p> <p><b><u>Representing data</u></b> Draw and interpret scatter graphs Understand and describe linear correlation and draw and use line of best fit Read and interpret ungrouped and grouped frequency tables Represent data in two way tables</p> <p><b><u>Tables &amp; probability</u></b></p>	<p><b><u>Brackets, Equations and Inequalities</u></b> Form algebraic expressions Multiply out a single bracket, multiple single brackets and simplify Expand a pair of binomials (H) Factorise into a single bracket Solve equations, including with brackets Form and solve equations with brackets Understand and solve simple inequalities Form and solve inequalities Solve equations and inequalities with unknowns on both sides (H) Form and solve equations and inequalities on both sides (H)</p> <p><b><u>Sequences</u></b> Generate sequences given a rule in words Generate sequences given a simple algebraic rule Generate sequences given a complex</p>	<p><b><u>Fractions and percentages</u></b> Convert fluently between key F/D/P Calculate key F/D/P of an amount without and with a calculator Convert between decimals and percentages greater than 100% Calculate percentage increase and decrease using a multiplier Express one number as a fraction or percentage of another with and without a calculator Work with percentage change Choose appropriate methods to solve percentage problems Find the original amount given the percentage less than 100% (H) Find the original amount given the percentage greater than 100% (H) Choose appropriate methods to solve complex percentage problems (H)</p>	<p><b><u>Angles in Parallel Lines and Polygons</u></b> Investigate angles between parallel lines and the transversal Identify and calculate with co-interior, alternate and corresponding angles Solve complex problems with parallel line angles Construct triangles and special quadrilaterals (R) Identify and calculate with sides and angles in special quadrilaterals Understand and use the properties of diagonals of quadrilaterals (H) Understand and use the sum of exterior angles of any polygon Calculate and use the sum of the interior angles in any polygon Calculate missing interior angles in regular polygons Construct an angle bisector (H) Construct a perpendicular</p>	<p><b><u>The Data Handling Cycle</u></b> Set up a statistical enquiry Design and criticise questionnaires Draw and interpret pictograms, bar charts and vertical line charts (R) Draw and interpret multiple bar charts Draw and interpret pie charts (R) Draw and interpret line graphs Choose the most appropriate diagram for given set of data Represent and interpret grouped quantitative data Find and interpret the range Compare distributions using charts Identify misleading graphs</p> <p><b><u>Measures of Location</u></b> Understand and use the mean, median and mode Choose the most appropriate average Find the mean from an ungrouped frequency table (H) Find the mean from</p>

	<p>the reciprocal  Multiply and divide improper and mixed fractions (H)  Multiply and divide algebraic fractions (H)</p>	<p>Construct sample spaces for 1 or more events  Find probabilities from a sample space  Find probabilities from two-way tables  Find probabilities from Venn diagrams  Use the product rule for finding the total number of possible outcomes (H)</p>	<p>algebraic rule  Find the rule for the nth term of a linear sequence (H)</p> <p><b>Indices</b>  Adding and subtracting expressions with indices  Simplifying algebraic expressions by multiplying and dividing indices  Using the addition and subtraction law for indices  Exploring powers of powers (H)</p>	<p><b>Standard Index Form</b>  Investigate positive and negative powers of 10  Work with numbers greater than 1 in standard form  Work with numbers between 0 and 1 in standard form  Compare and order numbers in standard form  Mentally calculate with numbers in standard form  Add and subtract numbers in standard form  Multiply and divide numbers in standard form  Use a calculator to work with numbers in standard form  Understand and use negative indices (H)  Understand and use fractional indices (H)</p> <p><b>Number sense</b>  Round numbers to powers of 10, and 1 significant figure (R)  Round numbers to a given number of decimal places  Estimate the answer to a calculation  Understand and use error interval notation (H)</p>	<p>bisector of a line segment (H)</p> <p><b>Area of Trapezia and Circles</b>  Calculate the area of triangles, rectangles and parallelograms (R)  Calculate the area of a trapezium  Calculate the perimeter and area of compound shapes  Investigate the area of a circle  Calculate the area of a circle and parts of a circle with and without a calculator</p> <p><b>Line Symmetry and Reflection</b>  Recognise line symmetry  Reflect a shape in a horizontal or vertical line (shapes touching/not touching the line)  Reflect a shape in a diagonal line (shapes touching/not touching the line)</p>	<p>a grouped frequency table (H)  Identify outliers  Compare distributions using averages and the range</p>
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				<p>Calculate using the order of operations (R)</p> <p>Calculate with money</p> <p>Convert metric measures of length, weight and capacity</p> <p>Convert metric units of area and volume (H)</p> <p>Solve problems involving time and the calendar</p>		
Key Questions	<p>What is the purpose of a ratio?</p> <p>Why are 2:1 and 1:2 different?</p> <p>Can there be more than two amounts in a ratio?</p> <p>Why are factors useful when simplifying the ratio?</p> <p>How do conversion rates relate to ratios?</p> <p>If shapes are not drawn to scale, how can we show they are similar?</p> <p>How does a scale factor compare to a ratio?</p> <p>Why is a scale diagram useful?</p> <p>How is addition related</p>	<p>How many points lie on the <math>y = x</math>? Why?</p> <p>What effect does increasing/decreasing the value of <math>k</math> have on lines with equations in the form <math>y=kx</math>?</p> <p>What does the gradient of a line represent?</p> <p>Describe the differences between a linear and non-linear graph.</p> <p>How can you tell if correlation is positive or negative?</p> <p>How is correlation useful to us? Why do you need a line of best fit?</p>	<p>What is the difference between a term and an expression?</p> <p>Which order do we perform operations when substituting numbers into an expression? Why?</p> <p>What does expand mean when we are working with brackets?</p> <p>What do you look for to find the HCF of a set of terms?</p> <p>How many solutions will the equation have?</p> <p>How many solutions does an inequality have?</p>	<p>How do you use the fraction/percentage keys on your calculator?</p> <p>Is it possible to have a percentage greater than 100?</p> <p>How can you order mixed decimals and percentages?</p> <p>If I am multiplying by 0.2 why is this an 80% decrease?</p> <p>What's the difference between profit and loss?</p> <p>Why is it more efficient to write in standard form rather than as an ordinary number?</p> <p>Are negative powers</p>	<p>How do you know when two or more lines are parallel?</p> <p>How do you identify a pair of corresponding/alternate/co-interior angles?</p> <p>Which quadrilaterals are regular?</p> <p>What are the two conditions that make a polygon regular?</p> <p>Why do we use the perpendicular height when finding the area of a triangle and not the sloping height?</p> <p>Why is it useful to firstly calculate an estimate of the area?</p>	<p>What is the difference between discrete and continuous data?</p> <p>Why might it be useful to create a multiple bar chart?</p> <p>In which situation is a pie chart/bar chart/line graph the most useful? Why?</p> <p>How can you work out the range? What does the range tell you about a set of data? Is it an average?</p> <p>If you know the mean of a set of numbers, how can you find the total?</p> <p>Is it possible to have 3.9 people in a</p>

	<p>to multiplication?</p> <p>Does multiplying always make numbers larger?</p> <p>How many different ways can you write a quarter of <math>x</math>?</p>	<p>What does the word frequency mean?</p> <p>What are the equivalent ways of writing a probability?</p>	<p>What would the graph of such a sequence look like?</p> <p>Is it possible for <math>n</math> to take non-integer values? Why or why not?</p> <p>What is the difference between a base and an index?</p>	<p>of 10 always, sometimes or never negative numbers?</p> <p>Describe the steps you need to take to multiply/divide a pair of numbers in standard form.</p> <p>What's the same and what's different about rounding to 1SF and 1DP?</p> <p>Why is it useful to make an estimate before doing a calculation?</p>	<p>Which standard shapes can you identify in the compound shape?</p> <p>Do all regular polygons have lines of symmetry?</p> <p>How do we know how far the vertices of the image are from the mirror line?</p>	<p>family? What would be a better average to use?</p> <p>How could you estimate the mean from a table before doing any calculations?</p> <p>Why is our value an estimate of the mean rather than the exact mean?</p> <p>How do you decide which values are outliers?</p>
Assessment	Half term assessment on half term 1 topics	End of term assessment - all topics from term 1	Half term assessment on half term 3 topics	End of term assessment - all topics from year so far	Half term assessment on half term 5 topics	End of year assessment - covers all topics across the year
Literacy/numeracy/SMSC/Character	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work	Knowledge organisers for all units of work
Enrichment opportunities and futures	<p>Junior maths challenge</p> <p>Chess club</p> <p>Maths homework club</p> <p>STEM club</p>					



<b>Year 9</b>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Content</p> <p>Knowledge</p> <p>Skills</p>	<p><b><u>Straight line graphs</u></b> Horizontal and vertical lines, <math>y=x</math>, <math>y=-x</math> Comparing gradients and intercepts Using <math>y = mx + c</math> Find equations of lines from a graph Interpret real life graphs Explore perpendicular lines</p> <p><b><u>Forming and solving equations</u></b> Solve a variety of one and two step equations and inequalities Form and solve equations and inequalities in context Substitute into formulae and equations Rearrange formulae</p> <p><b><u>Testing conjectures</u></b> Show that..... Conjectures about number and algebra Expanding binomials</p>	<p><b><u>Three dimensional shapes</u></b> Recognise prisms Sketch and recognise nets of 3D shapes Plans and elevations Surface area of 3D shapes Volume of 3D shapes</p> <p><b><u>Constructions and congruency</u></b> Construct and interpret scale drawings Loci Construct bisectors Congruent triangles</p>	<p><b><u>Numbers</u></b> Solve problems with integers and decimals HCF and LCM Operations with fractions Solving problems with fractions Numbers in standard form</p> <p><b><u>Using percentages</u></b> Recap fractions/decimals/percentages Solve reverse percentage problems Repeated percentage change</p> <p><b><u>Maths and money</u></b> Solve problems with bills and bank statements Simple and compound interest Problems with exchange rates</p>	<p><b><u>Deduction</u></b> Solving angles problems Angle problems with algebra Conjectures with angles and shapes</p> <p><b><u>Rotation and translation</u></b> Order of rotational symmetry Rotate a shape about a point Translate points and shapes by a vector</p> <p><b><u>Pythagoras' Theorem</u></b> Calculate missing sides in right angles triangles Determine whether a triangle is right angled Use pythagoras on coordinate axis Explore proofs of pythagoras</p>	<p><b><u>Enlargement and similarity</u></b> Recognise enlargement and similarity Enlarge a shape by a positive integer/fractional scale factor from a point Enlarge by a negative scale factor (H) Work out missing sides and angles in a pair of given similar shapes Solve problems with similar triangles</p> <p><b><u>Solving ratio and proportion problems</u></b> Solve problems with direct and inverse proportion Solve ratio problems given the whole or a part Solve best buy problems</p>	<p><b><u>Probability</u></b> Relative frequency Expected outcomes Independent events Use tree diagrams for both independent and 'without replacement' problems Use diagrams to work out probabilities</p> <p><b><u>Algebraic representation</u></b> Draw and interpret quadratic graphs Interpret graphs, including reciprocal and piecewise Represent inequalities Investigate graphs of simultaneous equations</p>

					<p><b>Rates</b> Solve speed, distance, time problems Use distance/time graphs Solve problems with density, mass and volume Solve flow problems and their graphs Convert units and compound units</p>	
Key Questions	<p>All of the points on the line <math>y = x</math> have something in common. What is it?</p> <p>How does changing a coefficient of <math>x</math> in the equation of a line affect the line?</p> <p>What do you know if two lines have the same gradient?</p> <p>Is it possible to have an <math>x</math>-intercept?</p> <p>In <math>y = mx + c</math>, what do the letters represent?</p> <p>How do you know from its graph if a line has a positive/negative gradient/<math>y</math>-intercept?</p> <p>How many solutions does an inequality/equation</p>	<p>What is a dimension?</p> <p>How do we know if a solid shape is a prism?</p> <p>How many different nets are there for the shape?</p> <p>Why do you need to have three different perspectives to be able to construct the shape?</p> <p>Which face is the constant cross-section?</p> <p>How do you identify a pyramid?</p> <p>What do all the radii of a circle have in common?</p>	<p>Can you find the square root of a negative number?</p> <p>Are recurring decimals rational?</p> <p>How do you express a number as a product of its prime factors?</p> <p>What does the word reciprocal mean?</p> <p>When is a number in standard form?</p> <p>What's a quick way of multiplying by the same number twice? Three/four times?</p> <p>What's the difference between credit and debit?</p> <p>What does it mean if the balance is</p>	<p>How can you prove if a pair of lines are parallel or not?</p> <p>How does a pattern on a shape affect the order of rotational symmetry?</p> <p>Which vertex has not moved/is invariant? Why?</p> <p>Why will the hypotenuse always be the longest side?</p> <p>Why does it not matter when labelling the shorter sides <math>a</math> and <math>b</math>?</p> <p>What is the greatest distance between the vertices of a cube?</p>	<p>Are all squares similar? Are all rectangles similar?</p> <p>How does the scale factor affect the position of the image?</p> <p>What's the connection between similarity and scale factors of enlargement?</p> <p>What's the same/different about direct/inverse proportion graphs?</p> <p>Is it sensible to round when we convert minutes into hours?</p> <p>What does the gradient of a straight line segment in a</p>	<p>Why is experimental probability different from theoretical probability?</p> <p>Is the 'expected value' the exact number of times you would expect an event to occur?</p> <p>What does it mean for two events to be independent?</p> <p>Are all quadratic graphs symmetrical?</p> <p>What do you know about the values of <math>x</math> and <math>y</math> at the point of intersection of the two graphs?</p> <p>On a graph, what's the difference in meaning between a dotted line and a</p>

	<p>have?</p> <p>Can we check if the solution is correct? How?</p> <p>“An equation only has one solution”. Is this true or false? Give an example.</p> <p>Which variable is the subject? How do you know?</p> <p>How do we know if a number is even or odd?</p> <p>What does “in terms of n” mean?</p>	<p>What does equidistant mean?</p> <p>What does a bisector do?</p> <p>What does perpendicular mean? How can we check whether a line is a perpendicular bisector?</p> <p>What does the locus do to the angle between the lines?</p> <p>What information do you need in order to complete the construction of a triangle?</p>	<p>negative?</p> <p>How do you find a multiplier to calculate percentages?</p> <p>What is a credit agreement?</p> <p>What is the difference between simple and compound interest?</p> <p>What is VAT? How is VAT calculated?</p>		<p>distance-time graph tell us?</p> <p>Describe the rate at which the container will fill. Why will it change?</p> <p>If you know the speed in km/h, what steps would you take to convert it to m/s?</p>	<p>solid line that border a region?</p> <p>Can the variable only take integer values? How does this affect your solution to the inequality?</p>
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Enrichment opportunities and futures	<p>Junior maths challenge</p> <p>Chess club</p> <p>Maths homework club</p> <p>STEM club</p>					