

## Mathematics Curriculum Map

Year	Overview	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Over the course of year 7, students will begin KS3 by ensuring the security of knowledge gained across KS2. This knowledge is extended and developed to look at applied versions, with a distinct emphasis on problem solving. During the year, students will be introduced to algebraic concepts in depth for the first time. Additionally, students will learn about different types of numbers, including decimals, fractions, prime numbers, square, cube numbers etc., and use them in different capacities, including geometric and ratio problems,	<ul> <li>Place value and ordering integers and decimals</li> <li>Recognise and use integer place value up to one billion.</li> <li>Recognise and use decimal place value to at least hundredths.</li> <li>Work out intervals and use number lines.</li> <li>Compare and order numbers.</li> <li>Use ordered lists to find the range and the median of a set of numbers.</li> <li>Round numbers to positive powers of ten</li> <li>Round numbers to one significant figure</li> <li>Solving problems with Addition and Subtraction</li> <li>Use mental and formal written methods of addition with integers and decimals, including choosing the most appropriate method.</li> <li>Solve problems in the context of perimeter, money and frequency trees and tables.</li> <li>Solve problems in the context of bar charts and line charts.</li> <li>Solving problems with multiplication and formal written</li> </ul>	<ul> <li>(Conclude solving problems with multiplication and division, then move on to the next unit)</li> <li>Understand and use algebraic notation.</li> <li>Use single function machines and series of two function machines with numbers, bar models and letters.</li> <li>Use and interpret algebraic notation.</li> <li>Understand and use inverse operations.</li> <li>Form and substitute into expressions, including to generate sequences.</li> <li>Represent functions graphically.</li> <li>Equality and Equivalence</li> <li>Understand equality.</li> <li>Use fact families.</li> <li>Form and solve one- step equations.</li> <li>Understand equivalence of algebraic expressions</li> <li>Collect like terms.</li> <li>Operations and equations with directed number</li> <li>Order directed numbers, both in contextualised and abstract situations</li> <li>Revisit four operations to include directed number.</li> <li>Use a calculator with directed number.</li> </ul>	<ul> <li>(Conclude Operations and equations with directed number then move on to the next unit)</li> <li>Addition and subtraction of fractions</li> <li>Represent tenths and hundredths on diagrams and number lines.</li> <li>Convert mixed numbers and improper fractions.</li> <li>Add and subtracting fractions with <ul> <li>the same denominator</li> <li>one denominator a multiple of the other</li> <li>different denominators</li> </ul> </li> <li>Add and subtract fractions and decimals e.g., <sup>3</sup>/<sub>4</sub> + 0.2</li> <li>Constructing, measuring, and using geometric notation</li> <li>Mental arithmetic strategies</li> <li>Use known facts to derive other facts,</li> <li>Evaluate an algebraic expression given a related fact.</li> <li>Use estimation.</li> </ul>	<ul> <li>(Conclude constructing, measuring, and using geometric notation then move on to the next unit)</li> <li>Sequences</li> <li>Describe and continue sequences in diagram and number forms, both linear and non-linear</li> <li>Compare numerical and graphical forms.</li> <li>Developing Geometric Reasoning</li> <li>Calculate and use angles at a point, angles on a straight line and vertically opposite angles.</li> <li>Calculate missing angles in triangles and quadrilaterals.</li> </ul>	<ul> <li>(Conclude Developing Geometric Reasoning then move on to the next unit)</li> <li>Prime numbers and proof <ul> <li>Recognise prime, square and triangle numbers.</li> <li>Express a number as a product of prime factors.</li> <li>Powers and roots</li> <li>Make and test conjectures.</li> <li>Understand and use counterexamples.</li> </ul> </li> <li>Fraction, decimal and percentage equivalence</li> <li>Represent tenths and hundredths on diagrams and number lines.</li> <li>Interchange between fractions, decimals, and percentages for multiples of one tenth and one quarter</li> <li>Interpret pie charts.</li> <li>Equivalent fractions decimals, and percentages.</li> </ul>	<ul> <li>Fractions and Percentage amounts</li> <li>Work out simple fractions and percentages of amouwith and without a calculator</li> <li>Multiplying and Dividing Fractions</li> <li>Multiply and divide a fraction by an intege</li> <li>Multiply and divide a fraction by a fraction</li> <li>Understand and use reciprocal.</li> <li>Ratio and Scale</li> <li>Understand ratio and link to multiplication</li> <li>Use ratio notation.</li> <li>Reduce ratios to simp form.</li> <li>Solve ratio problems</li> <li>Calculate the circumference of a circumfe</li></ul>

	Student Resources and Educational Trips
es of	Student Resources Students across all years in KS3 will be given access to SPARX mathematics, for both homework and extra mathematical support. <u>https://sparxmaths.com</u> Additionally, students may also gain benefit from the mathematical courses through Seneca. <u>https://senecalearning.com/en-GB/</u> Alternate locations for further resources are linked below: <u>Corbett Maths</u> <u>https://corbettmaths.com</u>
r.	<u>Maths Made Easy</u> <u>https://mmerevise.co.uk</u>
the	Dr Frost Maths (Extend Work) https://www.drfrostmaths.com
	<u>KS3 Maths BBC Bitesize</u> https://www.bbc.co.uk/bitesize/subjects/zqhs34j
d its olest rcle.	Student Educational Trips In year 7, during the Autumn term, students will be given the opportunity to visit the Royal Greenwich Observatory. Students will begin to see the relationship between mathematics and science as they explore the grounds of this museum, considering the mathematics used to work in astronomy. In addition, performances in the planetarium will help inspire students for future studies.

Year 8 students       Begin to use the order of operations.       Assessment       Assessment       Use the order of operations.       Assessment       Assessment       Assessment       Assessment       I.ow stakes quiz at the end of a block       I.o	
Assessment       Assessment <th></th>	
Year 8 students extend and develop their knowledge from year 7 by revisiting and extending their knowledge of algebra. This leads into graphical as well.Brackets, Equations, and Inequalities(Conclude Working in the cartesian plane, then move to the next unit)(Conclude Developing number sense, then move to the next unit)(Conclude The DataArWear 8 students extend and develop their knowledge of algebra. This leads into graphical as well.•Expand, and factorise into, single brackets.(Conclude Working in the cartesian plane, then move to the next unit)(Conclude Practions and number sense, then move to the next unit)(Conclude The DataArNumber sense•Expand, and factorise into, single brackets.•Straight line graphsNumber senseRepresenting DataMeasures of Location•••Form and use expressions, into graphical••Interpret straight line graphs.••Developmental strategies••Draw and interpret scatter graphs.•Revisit the median and mean, including finding the total given the mean.•Students will then begin to develop an begin to develop an••Form and solve equations to inequalities with and students with and begin to develop an••Reduce equations to the form $y = mx + c$ the form $y = mx + c$ ••Draw and use lines of best fit.••••Distinguish between and modal class.••Compare to linear places•••<	Seessment Low stakes quiz at the end of a block CET KS3 Assessment point 2
8understanding of different unit bases, and how the number system can be manipulated to best support us. Furthermore, students begin to look at statistical representations. Concluding the year, students look at aransformation of 	Irea of trapezia and circle Review area of shapes covered in year 7. Calculate the area of a trapezium. Calculate the area of a circle, and the area of parts of a circle. Use significant figures Calculate the area of compound shapes. Three dimensional shapes Understand the language of faces, edg and vertices. Know the names of common prisms and non-prisms. Identify 2-D shapes within 3-D shapes. Work out the volume and surface area of cuboids and cylinders Work out the volume any prism. Work out missing lengths given area and/or volume.

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	KS2 Mathe BBC Ditaciza
	https://www.bbc.co.uk/bitesize/subjects/zqhs34j
s. e of	Student Educational Trips In year 8, during the spring term, students will be given the opportunity to visit Bletchley Park. Students will begin to see the development of the Turing machine, which aided in the reduction of time in WWII. Additionally, they will explore the mathematics in codes and cyphers, and learn about one of the most famous mathematicians in recent History – Alan Turing.

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Assessment         Assessm			expressions, formulae, and graphs	<ul> <li>Mental arithmetic strategies</li> <li>Use known facts to derive other facts,</li> <li>Evaluate an algebraic expression given a related fact.</li> <li>Use estimation.</li> </ul>	<ul> <li>Use multipliers to solve percentage problems.</li> <li>Express one number as a percentage of another</li> </ul>			<ul> <li>Recognise line symme in polygons and other shapes.</li> <li>Reflect shapes in horizontal, vertical, ar diagonal lines.</li> </ul>
During year 9, students wilb bring topether knowindge were st hoatton were nate at work years students sum were natereating the language of arcoss the year to allow students in allow stud			<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> <li>CET KS3 Assessment point 3</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> <li>CET KS3 Assessment point 4</li> </ul>
	9	During year 9, students will bring together knowledge over the past two years. Students start with probability. This is an underlying theme sequenced across the year to allow students to make connections to wider mathematical techniques. Furthermore, during year 9 students will start to explore different types of mathematical problems, including the concept of conjecture and deduction.	<ul> <li>Sets and Probability</li> <li>Understand and use set notation.</li> <li>Draw and interpret Venn diagrams.</li> <li>Understand and use the language of probability.</li> <li>Calculate the probability of a single event.</li> <li>Use the sum of probabilities of an event is 1.</li> <li>Tables and Probability</li> <li>List outcomes using sample space diagrams for one and two events.</li> <li>Find probabilities using tables and Venn diagrams.</li> <li>Constructions and Congruence</li> <li>Construct 3-D shapes from nets and construct the net of a given 3-D shape.</li> <li>Construct and use scale drawings.</li> <li>Construct and use scale drawings.</li> <li>Construct perpendiculars and bisectors</li> <li>Understand congruency, via construction</li> </ul>	<ul> <li>Pythagoras' Theorem</li> <li>Identify the hypotenuse of a right-angled triangle.</li> <li>Determine whether a triangle is right- angled.</li> <li>Calculate missing sides in right-angled triangles.</li> <li>Indices</li> <li>Form expressions using indices.</li> <li>Understand and use the addition and subtraction rules.</li> <li>Probability</li> <li>Relative frequency</li> <li>Expected number of outcomes</li> <li>Independent events</li> <li>Algebraic Representation</li> <li>Drawing and reading from quadratics</li> <li>Interpreting other graphs e.g., reciprocal, piecewise</li> <li>Representing inequalities</li> </ul>	<ul> <li>Sequences</li> <li>Describe and continue sequences in diagram and number forms, both linear and non-linear</li> <li>Compare numerical and graphical forms.</li> <li>Standard index form</li> <li>Convert between numbers in ordinary and standard form.</li> <li>Compare numbers given in standard form.</li> <li>Calculate with numbers given in standard form, with and without a calculator.</li> <li>Testing Conjectures</li> <li>Test conjectures in a wide range of context e.g.</li> <li>Sums and products of odd and even numbers</li> <li>Is a given number in a sequence?</li> <li>Is this shape?</li> <li>Are these lines parallel?</li> <li>What would happen if?</li> <li>Numbers</li> <li>Revisit types of number - extend to include rational and real numbers.</li> </ul>	<ul> <li>(Conclude Numbers, then move to the next unit)</li> <li>Using percentages</li> <li>Revisit percentage increase and decrease.</li> <li>Use percentages over 100%</li> <li>Find percentage changes.</li> <li>Use multipliers in a variety of contexts.</li> <li>Solve "reverse percentage" problems.</li> <li>Maths and Money</li> <li>Explore financial mathematics including: <ul> <li>Bills and bank statements</li> <li>Interest</li> <li>Unit pricing (best buys)</li> </ul> </li> <li>Deduction</li> <li>Revisit angles rules, including within special quadrilaterals.</li> <li>Find angles using algebraic methods.</li> <li>Use chains of reasoning to evaluate angles.</li> </ul>	<ul> <li>(Conclude Deduction, then move to the next unit)</li> <li>Rotation and Translation         <ul> <li>Identify the order of rotational symmetry of a shape.</li> <li>Find the result of rotating a shape.</li> <li>Translate points and shapes by a given vector.</li> <li>Understand variance and invariance in the context of transformations.</li> </ul> </li> <li>Enlargement and Similarity         <ul> <li>Enlarge shapes by a positive scale factor, including from a given point.</li> <li>Calculate the lengths of missing sides in similar shapes.</li> </ul> </li> <li>Solving ratio and proportion problems</li> <li>Conversion graphs</li> <li>Solve ratio problems given the whole or a part.</li> <li>Simple inverse proportion</li> </ul>	<ul> <li>(Conclude Solving ratio an proportion problems, then move to the next unit)</li> <li>Rates <ul> <li>Work with speed, distance, time</li> <li>Solve problems involve density.</li> <li>Work with compound units</li> </ul> </li> <li>Revision <ul> <li>Teachers to choose topics bases on assessment througho the Key Stage</li> </ul> </li> </ul>

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	Student Educational Trips
	In year 9, during the summer term, students will be
	Mathematics is central to the construction of
	rollercoasters, along with the application of
	scientific theory. Students will explore these
	concepts in a workshop completed by Thorpe Park
	members of staff. This helps draw the knowledge
	links to physics aiding future study

		Assessment <ul> <li>Low stakes quiz at the end of a block</li> </ul>	Assessment <ul> <li>Low stakes quiz at the end of a block</li> <li>CET KS3 Assessment point 5</li> </ul>	<ul> <li>Revisit fraction arithmetic</li> <li>Extend knowledge of HCF and LCM</li> <li>Revisit standard form</li> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	Assessment • Low stakes quiz at the end of a block	<ul> <li>Unit pricing problems ('best buys')</li> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> <li>CET KS3 Assessment point 6</li> </ul>
10	GCSE year 10 starts with exploring Similarity, with trigonometry being a new concept for students to explore. Algebra is a central part to the GCSE course, so this is revisited in half term 2 and extended for students completing higher GCSE. Following this Geometry is explored which leads into problems surrounding ratio and proportional change. Concluding the year, students review statistics and number work to best prepare them for year 11.	<ul> <li>Congruence, similarity, and enlargement</li> <li>Understand the difference between congruence and similarity.</li> <li>Enlarge a shape about a given point; understand and use similarity.</li> <li>Find missing sides in similar shapes including pairs of similar triangles.</li> <li>Understand and use the conditions for a pair of congruent triangles.</li> <li>Understand trigonometric ratios.</li> <li>Work out missing lengths and angles in right-angled triangles</li> <li>Know and use the exact values of key angles.</li> </ul>	<ul> <li>Representing solutions of equations and inequalities</li> <li>Form and solve equations and inequalities in a variety of contexts, including with unknowns on both sides.</li> <li>Represent solutions to inequalities on a number line.</li> <li>Represent solutions to equations graphically.</li> <li>Simultaneous equations.</li> <li>Understand the meaning of solution, appreciating that some equations have multiple solutions.</li> <li>Form and solve a pair of linear simultaneous equations algebraically.</li> </ul>	<ul> <li>Angles &amp; bearings</li> <li>Review KS3 angles rules</li> <li>Understand and use bearings.</li> <li>Working with circles</li> <li>Review area and circumference</li> <li>Name parts of a circle and perform related calculations.</li> <li>Find areas and volumes related to circles – cylinder, cone, sphere etc.</li> <li>Vectors</li> <li>Understand vector notation.</li> <li>Vector arithmetic – addition, subtraction, and multiplication by a scalar</li> <li>Vectors and translations</li> </ul>	<ul> <li>Ratios &amp; fractions</li> <li>Use ratios, including with mixed units.</li> <li>Fractions in ratios</li> <li>Fractions from ratios</li> <li>Combining ratios</li> <li>Unit pricing ('best buys')</li> <li>Currency conversions</li> </ul> Percentages and Interest <ul> <li>Convert fractions, decimals, and percentages.</li> <li>Find percentages and percentages and percentages.</li> <li>Find one number as a percentage of another.</li> <li>Calculate simple and compound interest.</li> <li>Evaluate exponential change e.g., depreciation.</li> <li>Find original values.</li> </ul> Probability <ul> <li>Review of single event probability – comparing theoretical and experimental</li> <li>Understand and work with mutually exclusive and independent events.</li> <li>Construct and interpret tree diagrams.</li> <li>Find probabilities from frequency trees, tables, and Venn diagrams.</li> </ul>	<ul> <li>Collecting, representing, and interpreting data</li> <li>Understand sampling, including the possible limitations.</li> <li>Construct and interpret tables and line graphs for time series data.</li> <li>Understand and represent with grouped data.</li> <li>Understand and identify correlation.</li> <li>Use lines of best fit, understanding the dangers of extrapolation</li> <li>Construct and interpret frequency polygons.</li> <li>Evaluate measures of location and dispersion</li> <li>Use statistical diagrams and measures to compare distributions.</li> <li>Non- calculator methods</li> <li>Use four operations with integers (positive and negative), decimals and fractions with and without context (include all areas of previous study)</li> <li>Work with exact answers e.g., area and volume</li> </ul>	<ul> <li>Types of number and sequences</li> <li>Use factors, multiples, primes, and prime factorisation.</li> <li>Recognise arithmetic and geometric sequences.</li> <li>Recognise and use oth sequences.</li> <li>Indices and Roots</li> <li>Work out powers and roots.</li> <li>Use the rules of indices</li> <li>Calculate with number in standard index form</li> <li>Manipulating expressions and identities</li> <li>Use algebraic arguments.</li> <li>Use fractions in algebra</li> </ul>

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	<b>Student Education Trips</b> In Y10, during the school year, students will have the opportunity to attend an inspiring mathematics talk, led by some of the country's leading mathematicians in both academic spaces and creative spaces.

						<ul> <li>Evaluate calculations involving percentages.</li> </ul>		
		<ul> <li>Assessment</li> <li>Key stage 4 tier ring diagnostic assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> <li>KS4 CET Assessment point 1</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> </ul>	<ul> <li>Assessment</li> <li>Low stakes quiz at the end of a block</li> <li>KS4 CET Assessment point 2</li> </ul>	
11	Year 11 students begin by completing work surrounding graphs, both plotting and interpreting. This leads nicely to a review of algebra for foundation students, and an extension for higher stranded pupils. The last part of the year prior to revision is spent looking at the different types of exam questions, with problem solving, reasoning and mathematical communication the heart of the course. Revision concludes the contact time of the year as directed by classroom teachers.	<ul> <li>Gradients &amp; lines</li> <li>Find and use equations of straight lines.</li> <li>Non-linear graphs</li> <li>Plot and read from quadratic curves.</li> <li>Understand and find roots.</li> <li>Plot cubic and reciprocal graphs.</li> <li>Using graphs</li> <li>Reflect shapes in a given line.</li> <li>Construct and interpret speed, distance, and time graphs.</li> <li>Construct and interpret real-life graphs</li> </ul>	<ul> <li>Expanding &amp; factorising</li> <li>Expand a single bracket and binomials.</li> <li>Factorise into a single bracket.</li> <li>Factorise quadratics of the form x<sup>2</sup> + bx + c</li> <li>Solve quadratic equations.</li> <li>Simplify complex algebraic expressions including algebraic fractions.</li> <li>Changing the subject</li> <li>Review solving linear equations.</li> <li>Change the subject of a formula, including perimeter, area, and volume formulae.</li> <li>Volume of a pyramid</li> <li>Functions</li> <li>Find inputs and outputs.</li> <li>Show algebraic expressions are equivalent.</li> <li>Solve problems using the kinematics formulae.</li> </ul>	<ul> <li>Multiplicative Reasoning <ul> <li>Review scale and enlargement</li> <li>Work with direct and inverse proportion</li> <li>Calculate with pressure and density.</li> <li>Determine whether a problem requires additive or multiplicative reasoning.</li> </ul> </li> <li>Geometric Reasoning <ul> <li>Review angle facts, focusing on the language of reasons and chains of reasoning.</li> <li>Review Pythagoras' theorem and using trigonometrical ratios.</li> </ul> </li> <li>Algebraic Reasoning <ul> <li>Work with complex indices</li> <li>Review simplification of complex expressions and finding the n<sup>th</sup> term rule</li> <li>Justify e.g., why a number is/isn't in a given sequence.</li> </ul> </li> </ul>	<ul> <li>Transforming &amp; constructing</li> <li>Revisit transformations of shapes, linking to types of symmetry</li> <li>Perform standard constructions using ruler and protractor or ruler and compasses.</li> <li>Solve loci problems.</li> <li>Listing &amp; describing</li> <li>Work with organised lists</li> <li>Sample spaces and probability</li> <li>Complete and use Venn diagrams.</li> <li>Work with plans and elevations</li> <li>Use data to compare distributions.</li> <li>Show that</li> <li>Illustrate equivalence, numerically and algebraically.</li> <li>Justify answers.</li> <li>Use the language of angles rules.</li> <li>Use the conditions for congruent triangles.</li> </ul>	<ul> <li>Revision</li> <li>During this last half-term in the run up to the final examinations, we expect teachers to work with students on past papers and topics that have been identified that need further attention. We will provide some support material to help with key topics including: <ul> <li>Number work, including multi-step problem solving.</li> <li>Forming and solving equations and inequalities</li> <li>Working with formulae that students are expected to know e.g., area and volume formulae.</li> <li>Probability etc.</li> </ul> </li> </ul>	Examinations	Student Resour Students across to SPARX mathe extra mathema https://sparxm Additionally, st the mathematic https://senecal Further to phys workbooks will purchase throu by CGP resourc https://www.cg Alternate locati below: Corbett Maths https://corbett Maths Made Ea https://corbett Dr Frost Maths https://www.du KS4 AQA Maths https://www.bu Student Educat In Y10, during t the opportunity talk, led by som mathematician creative spaces
		Assessment:	Assessment:	Assessment:	Assessment:	Assessment:		

<b>sment</b> ow stakes quiz at the nd of a block S4 CET Assessment oint 2	
inations	Student ResourcesStudents across all years in KS4 will be given access to SPARX mathematics, for both homework and extra mathematical support.https://sparxmaths.comAdditionally, students may also gain benefit from the mathematical courses through Seneca.https://senecalearning.com/en-GB/Further to physical links, revision guides and workbooks will be made available to parents to purchase through the school, which are developed by CGP resources.https://www.cgpbooks.co.ukAlternate locations for further resources are linked below: Corbett Maths https://corbettmaths.comMaths Made Easy https://corbettmaths.comMaths Made Easy https://www.drfrostmaths.comKS4 AQA Maths BBC Bitesize https://www.bbc.co.uk/bitesize/examspecs/z8sg6frStudent Education Trips 

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Notes: Assess assess either	ments are conducted to ments look at the knowle key stage is done so thro	assess cumulative knowledge edge of the previous unit. Ret ugh appropriately crafted en	. All low stakes rieving content from across gage tasks.	<b>Examination Specification:</b> AQA GCSE Mathematics (830) Higher and Foundation tier, b identify the foundation and h	)) oth fo igher	ollowing the same curriculu elements of the course.	ım b	ase. Topic plans	Homework: All homework across math increasing amounts of hor education. Homework is r teaching throughout the y

thematics is set and scheduled on SPARX. Students get mework over the five years they are in secondary retrieval based, whilst also interleaving content of current year.