

**Autumn 1**

	1	2	3	4	5	6	7	
13	Algebraic Methods/Regression, Correlation & Hypothesis testing	Algebraic Methods/Regression, Correlation & Hypothesis testing	Algebraic Methods/Regression, Correlation & Hypothesis testing	Functions and Graphs/Conditional probability	Functions and Graphs/Conditional probability	Functions and Graphs/Conditional probability	Sequences and Series/Normal Distribution	
12	Algebra & Functions/Quantities in Mech	Algebra & Functions/Kinematics	Algebra & Functions/Kinematics	Algebra & Functions/Kinematics	Algebra & Functions/Forces & Newtons laws	Algebra & Functions/Forces & Newtons laws	Algebra & Functions/Forces & Newtons laws	
11	Exam Prep 1	Exam 1	Therapy 1	Exam	Exam 2	Therapy 2	PPE prep	
10	Ratio & Proportion Ratio Simplification Sharing Ratios	Ratio & Proportion Scale Factors Area/Volume Scale Factors	Ratio & Proportion Direct/inverse proportion	Sequences Generating sequences Nth term rules	Sequences Quadratic sequences	Probability Relative Frequency Expected frequency	Probability Probability trees	
9	Fractions Multiply & divide	Fractions Add & subtract	Brackets Expanding single, double, triples	Subject of the formula Able to rearrange a formula	Polyg Sum of interior polyg			
8	Arithmetical Operations with Decimals and Negatives Using formal written methods for arithmetic			Linear Equations with unknown on both sides Solving linear equations in one variable (unknown on both sides)	Parallel, Alternate and Corresponding Understanding alternate and corresponding angles			
	Working with Place Value				Introducing Algebra			

<b>7</b>	<p data-bbox="470 174 766 206">Understanding Place Value</p> <p data-bbox="359 264 877 295">Ordering numbers and using correct symbolism</p> <p data-bbox="319 336 917 398">Working with termination decimals and corresponding fractions</p> <p data-bbox="359 443 877 474">Expressing one quantity as a fraction of another</p>	<p data-bbox="1093 174 1460 206">Knowing key terminology for algebra</p> <p data-bbox="1157 264 1428 295">Using algebraic notation</p> <p data-bbox="1013 336 1460 398">Simplifying expressions by collecting like terms multiplying over a bracket</p>
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							Autumn 2						
8		9		10		11		12		13			
Sequences and Series/Normal Distribution	Sequences and Series/Normal Distribution	Sequences and Series/Normal Distribution	Binomial Expansion/Moments	Binomial Expansion/Moments	Radians/Moments	Radians/Forces and friction							
Algebra & Functions/Forces & Newtons laws	Algebra & Functions/Vectors 2D	Algebra & Functions/Vectors 2D	Coordinate Geometry/Vectors 2D	Coordinate Geometry/Vectors 2D	Coordinate Geometry/Kinematics 2	Trigonometry/Kinematics 2							
PPE	PPE Therapy	Exam prep 3	Exam 3	Therapy 3	PPE prep	PPE							
<b>Number</b>	<b>Number</b>	<b>Number</b>	<b>Number</b>	<b>Algebra</b>	<b>Algebra</b>	<b>Algebra</b>							
Rounding	Rules of indices	Standard form	Surds	Factorising single brackets	Double brackets	Rearranging formulae							
Estimation													
Angles	<b>Probability</b>	<b>Ratio &amp; Percentage Change</b>	<b>Percentage Change</b>			<b>Linear Equations</b>							
Similar, regular polygons	Sample space diagrams	Linking fractions & ratio	Interest & Simple interest			Rearrange an equation & solve							
<b>Sets and Unions</b>	<b>Percentages</b>				<b>Sequences and Relations</b>								
Using tables, grids, Venn and Carroll diagrams for sets and unions	Considering fractions and percentages as operators				Finding the nth term of an arithmetic sequence								
	Working with percentages and percentage changes using fractions or decimals				Interpreting linear relationships graphically								
	Lines and Angles			The Probability Scale			Power of Ten						

bra	Using correct conventions for drawing	Understanding the probability scale	U.
terms and	Using the properties of angles at a point, on a straight line and vertically opposite	Understanding that the probabilities of all possible outcomes sum to 1	Rounding to a

				Spring 1			
14	15	16	17	18	19	20	
Trigonometric Functions/Forces and friction	Trigonometric Functions/Projectiles	Trigonometric Functions/Projectiles	Trigonometric Functions/Application of forces	Trigonometric Functions/Application of forces	Trigonometric Functions/Application of forces	Parametric Equations/Further Kinematics	Parametric Equations/Further Kinematics
Trigonometry/Stat sampling	Trigonometry/Data presentation	Further Algebra/Data presentation	Further Algebra/Data presentation	Further Algebra/Data presentation	Further Algebra/probability	Differentiation/Probability	Differentiation/Probability
PPE Therapy	Exam prep 4	Exam 4	Therapy 4	GCSE prep	Maths GCSE	Maths	
<b>Linear graphs</b>  $y = mx + c$  Co-ordinate geometry  Parallel and perpendicular lines		<b>Simultaneous Equations</b>  Solving linear equations Graphical solutions Solving by substitution		<b>Algebra</b>  Trial and Improvement Functions Iteration		<b>Graphs</b>  Quadratic Cubic	<b>Graphs</b>  Exponential
ns	<b>Geometry &amp; Formula</b>  Link expressions to geometrical shapes	<b>Congruent &amp; Similar shapes</b>  Understanding congruence & similarity	<b>Averages</b>  Mean, mode, median	<b>Box plots &amp; IQR</b>  Understanding quartiles & measures of spread		<b>Expressions graphs</b>  Linking fo graphs	
ionships	<b>Symmetries and Constructions</b>  Drawing polygons  Working with standard ruler and compass constructions			<b>Using Averages, Range and Relationships to Describe Data</b>  Understanding measures of central tendency and spread  Using scatter graphs			
ometric sequence							
s algebraically and							
<b>Factors, Roots and Rounding</b>		<b>Formulae, Sequences and Rules</b>			<b>Using Measurements</b>		

sing powers and roots

in appropriate degree of accuracy

Substituting into formulae and  
expressions

Generating terms of a sequence

Using standard units of measur

Converting fluently between standar

Solving area nd volume probelms by de  
using formulae

Spring 2

21		22		23		24		25		26		27	
Differentiation /Further Kinematics	Differentiation /Numerical Methods	Differentiation /Numerical Methods	Differentiation /Vectors	Differentiation /Vectors	Integration /Integration	Integration /Integration	Integration /Integration	Integration /Integration	Integration /Integration	Integration /Integration	Integration /Integration	Integration /Integration	Integration /Integration
Differentiation/Stats distribution	Differentiation/Stats distribution	Integration/stats distribution	Integration/stats distribution	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Integration/stats Hyp test	Exp &Logs/Stats Hyp test

<b>Graphs</b>	<b>Circles</b>		<b>Trigonometry</b>	<b>Trigonometry</b>	<b>Bearings</b>	<b>Compound measurements</b>	<b>Quadratic</b>
Translations	Circle Theorems	Circle Theorems	SOHCAHTOA  Context	Cosine/Sine rules		Converting measures	Solving by factorising

<b>, formulae &amp; graphs</b>	<b>Direct &amp; inverse proportion</b>	<b>Graphs</b>		<b>Pythagoras</b>		<b>Trigonometry</b>
Formulae & graphs	Linking two quantities using direct or inverse proportion	Linear & quadratic	Solving equations graphically: linear & quadratic	Missing sides in right angled triangles		Missing sides

<b>Multiples, Factors and Primes</b>				<b>Linear Equations: Graphically and Algebraically</b>				<b>Accuracy</b>
Working with prime factors, LCM and HCF				Working with graphs of linear functions				Calculating finding
				Understanding gradient and intercept ( $y=mx+c$ )				Solving circumference shapes etc
								Deriving surface area

<b>Representing and Interpreting Data</b>				<b>Order of Operations</b>				<b>Linear Equations</b>
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·e	Constructing and interpreting tables and charts for grouped and ungrouped data	Using inverse operations	Solving line in one
·d units		Using order of operation	
riving and		Using a calculator	



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Exam Style practice								
Exp & Logs/Stats Hyp test	Exp & Logs/Exam practice	Exp & Logs/Exam practice	Exp & Logs/Exam practice	Exam practice	Exam practice	Exam practice	Exam practice	Exam practice

<b>Equations</b>	<b>Graphs</b>	<b>Simultaneous equations</b>	<b>Grouped Frequency</b>	<b>Vectors</b>	<b>Inequalities</b>
Formula	Graphs of quadratics	Solving quadratic and linear Graphing solutions	Histograms	Column vectors Algebraic notation	Solving

<b>Geometry</b>	<b>Standard Form</b>	<b>Sequences</b>	<b>Compound Measures</b>	<b>Proportional Reasoning</b>
Angles & angles	Big & small Use of a calculator	nth term of a sequence Exploring the Fibonacci sequence	SDT Density	Best value Currency Exchange

<b>Shapes with Perimeter, Area and Volume</b>	<b>Dividing Quantities into Ratios</b>	<b>Algebraic Expressions</b>	<b>Translations</b>
Working with approximations and possible range of errors Solving problems involving circumference and area of circles and shapes that include circular parts Using formula to find area and volume of prisms and cylinders	Dividing Quantities into Ratios	Factorising algebraic expressions	Describing a translation

<b>Equations</b>	<b>Properties of Shapes and Solids</b>	<b>Ratio</b>	<b>Graphs of Linear Functions</b>
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Linear equations  
with one variable

Deriving and illustrating properties of  
plane figures

Using the properties of 3D shapes to  
solve problems

Representing and simplifying ratios

Working with coordinates

Graphing linear functions  
with one variable

Summer 2

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<p><b>alities</b></p> <p>Graphing inequalities</p>	<p><b>Proof</b></p> <p>Recurring decimals    Algebraic proofs</p>	
<p><b>Modelling Modelling</b></p> <p>Real Life Situations</p> <p>Using formula in real life    Using formula in real life</p>		<p><b>Graphs</b></p> <p>Exponential, cubic &amp; reciprocal graphs</p>
<p><b>Translations, Rotations and Reflections</b></p> <p>translations, rotations and reflections</p>		<p><b>Diagrams and Constructions</b></p> <p>Working with scale diagrams and maps</p> <p>Constructing similar shapes using enlargement</p>
<p><b>Constructions</b></p>	<p><b>Congruence and Scale Drawing</b></p>	

linates	Understanding similarity and congruence
ons in one	Drawing and measuring line segments, angles and scale drawings
	Constructing congruent triangles