

Subject : Mathematics Year 7 Curriculum Map 2022 - 2023						2023
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
What am I leaning?	 Algebraic Thinking Exploring Sequences Understanding and using algebraic notation Equality and Equivalence 	 Place value and proportion Place value and ordering Fraction, Decimal and Percentage Equivalence 	Applications of number • Solving problems with addition, subtraction, multiplication and division • Fractions and percentages of amounts	Directed number and Fractional Thinking Directed number Fractional Thinking 	 Lines and Angles Constructing measuring and using geometric notation Developing geometric reasoning 	 <u>Reasoning with</u> <u>Number</u> Developing number sense Sets and probability Prime numbers and proof
Why am I learning this?	This will develop your skills in being able to recognise numbers and patterns. You will be able to spot this numerically, diagrammatically and graphically.	You will be able to convert between Fractions, decimals and percentages by understanding the equivalence between them.	You will begin to apply your basic knowledge on these number skills by working on everyday worded problems.	You will expand on your work with negatives from primary. You will see negative numbers in different contexts.	You will learn how to use measuring equipment for angles and constructing shapes. You will also practice drawing pie charts using angles.	This will help you to find strategies to solve complex calculations. You will also apply what you learnt in FDP to probability.
How will I be supported?	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples Given 	 Tasks will be broken down Examples Given 	 Tasks will be broken down Examples Given 	 Tasks will be broken down Examples Given 	 Tasks will be broken down Examples Given
How will I be challenged?	 Problem Solving Application skills 	 Problem Solving Application skills 	 Problem Solving Application skills 	 Problem Solving Application skills 	 Problem Solving Application skills 	 Problem Solving Application skills



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Subject : Ma	athematics Year 8 Curriculum Map 2022 - 2023					.3
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
What am I leaning?	Proportional Reasoning Ratio and Scale Multiplicative change Multiplying and dividing fractions 	 Representations Working in the cartesian plane Representing data Tables and probability 	Algebraic Techniques Brackets equations and inequalities Sequences Indices	Developing Number Fractions and Percentages Standard index form Number sense	 Developing with Geometry Angles in parallel lines and polygons Area of trapezia and circles Lines of symmetry and reflection 	Reasoning with Data • The data handling cycle • Measures of location
Why am I learning this?	You will start to deepen your understand of equivalence and the links between ratio and fractions.	You will start to apply algebraic rules to straight- line graphs. This will help towards your understanding in year 9 when looking at m and c.	You will explore expanding and factorising single brackets, as well as building on your year 7 knowledge on sequences introducing algebra	You will start to apply your skills of converting by using both calculator and non-calculator methods.	You will build on your angle knowledge by looking at parallel lines and properties of polygons.	You will start to use different graphs and charts to make comparisons between the data. You will learn how to use statistical language.
How will I be supported?	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given
How will I be challenged?	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills



Subject : M	t : Mathematics Year 9 Curriculum Map 2022 - 2023					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
What am I leaning?	Reasoning withAlgebra• Straight line graphs• Forming and solving equations• Testing 	Constructing in 2 and 3 dimensions Three dimensional shapes Constructions and congruency	Reasoning with number Numbers Using percentages Maths and money	Reasoning with Geometry Deduction Rotation and translation Pythagoras' Theorem	Reasoning withproportion• Enlargementandsimilarity• Rates• Ratio andproportion	Representations and Revision Probability Algebraic Representation
Why am I learning this?	You will be introduced to m and c and understand their values applying them to abstract and real life content.	You will now build on your knowledge of shapes and apply it to surface area, volume and plans and elevations.	You will apply your knowledge of number and percentages to look at maths in a financial context. This will prepare you for adult life.	You will be able to compare the different transformation forms so far. You will also be introduced to vectors to describe a translation.	You will start to apply your knowledge of proportion to direct and inverse proportion.	You will begin to look at representing ad interpreting data using a Venn diagram.
How will I be supported?	 Task will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given 	 Tasks will be broken down Examples given
How will I be challenged?	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills 	 Problem solving Application skills



Subject : Mathematics				Year 10 Curriculum Map 2022 - 2023			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
What am I leaning?	 Similarity Congruence similarity and enlargement Trigonometry 	 Developing Algebra Equations and inequalities Simultaneous equations 	 Geometry Angles and bearings Working with circles Vectors 	 Proportions and proportional change Ratios and fractions Percentages and interest Probability 	 Delving into data Collecting representing and interpreting 	 Using number Types of number and sequences Indices and roots 	
Why am I learning this?	You will be able to make links between similarity and trigonometry at this stage using your skills learnt in KS3	You will deepen your understanding by looking at the difference between equations and inequalities; you will also explore how number lines and graphs can be used to represent the solutions to inequalities.	You will begin to link your knowledge on angles by being introduced to bearings. You will see where this is used in real life.	You will build on your knowledge from KS3. You will be introduced to tree diagrams with calculating probability	You will explore the different methods to collect and represent data. You will learn how to analyse and compare between two data sets.	You will consolidate your knowledge of understanding powers and applying index laws	
How will I be supported?	 GCSE question examples Intervention 	 GCSE question examples Intervention 	 GCSE question examples Intervention 	 GCSE questions examples intervention 	 GCSE questions examples intervention 	 GCSE question examples Intervention 	
How will I be challenged?	 Higher grade tasks Complex problems 	 Higher grade tasks Complex problems 	 Higher grade tasks Complex problems 	 Higher grade tasks Complex problems 	 Higher grade tasks Complex problems 	 Higher grade tasks Complex problems 	



Subject : Mathematics				Year 11 Curriculum Map 2022 - 2023			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
What am I leaning?	 Graphs Gradients and lines Non-linear graphs Using graphs 	 Algebra Expanding and factorising Changing the subject Functions 	 Reasoning Multiplicative Geometric Algebraic 	 <u>Revision and</u> <u>communication</u> Transforming and constructing Listing and describing Show that 	Revision and Examinations	Revision and Examinations	
Why am I learning this?	You will deepen your understanding of a gradient and intercept using the equation y=mx+c. you will also look at quadratic and cubic graphs.	You will be revising your algebra skills by reviewing your knowledge on expanding and factorising.	You will apply your knowledge and look at problems in real life context to deepen your reasoning skills	You will practise your skills in communicating in various aspects of mathematics			
How will I be supported?	 GCSE question examples Intervention 	 GCSE questions examples Intervention 	 GCSE questions Intervention 	 GCSE questions Interventions 			
How will I be challenged?	 Higher grade questions Complex problems 	 Higher grade questions Complex problems 	 Higher grade questions Complex problems 	 Higher grade questions Complex problems 			

