Maths (Higher) Curriculum Map

Curriculum Intent

Our Maths curriculum aims to:
- Enthuse students about Maths and the use of Maths in real-life scenarios, encouraging students to apply their skills to problem solving.
- Coach students to Think and Speak like a Mathematician developing a good understanding of the key mathematical vocabulary.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Sequences How do I draw a graph of a sequence of numbers? Algebraic Notation How can a letter also be a number?	3 Equality and Equivalence When is equal not equivalent? Place value What is a power of 10?	FDP Equivalence Can we use fractions to compare test results?	Addition and Subtraction How do I manage my finances? Multiplication and Division How many millimetres to the moon?	Fractions and Percentages of an amount Can 110% of a class get this question correct? Directed Number Other than representing temperature what do negative numbers do?	Adding and subtracting fractions Why do fractions sometimes behave in an improper manner? Geometric reasoning How does a straight line have an angle in it?
Year 8	Ratio and Scale What is the ratio of land to sea across the world? Multiplicative Change How do I make my money last on holiday?	Multiplying and dividing fractions? What is a reciprocal? Working in the Cartesian Plane How did a fly on a ceiling change maths forever?	Representing Data How do political parties use graphs in an election campaign?	Tables and Probability Which is the most likely number to roll in a game of monopoly? Brackets, Equations, and Inequalities How is algebra used in medicine?	Sequences How can I describe a sequence using algebra? Assessment Window Theme: 8.9 Indices How do I power a power?	Fractions and Percentages How do I know what my percentage profit is? Standard Form What numbers do I use to describe a planet or an atom?

Year 9	Straight Line Graphs How can I graph help me decide which taxi firm to use? Equations and Inequalities How is algebra used in medicine?	Shapes What is the volume of the Maths' classroom? Constructions and Congruency How would a bank decide where to put its security cameras?	Numbers How do we calculate with numbers the size of a galaxy? Using Percentages Is a 'sale price' always the best price?	Maths and Money How do I read a bank statement? Rotation and Translation How do you translate when you are talking about shapes?	Pythagoras' Theorem Who could use Pythagoras' Theorem? Enlargement and Similarity How do I make an enlargement smaller?	Ratio and Proportion What quantity of spice would you need to make a curry for the class? Rates How fast was Usain Bolt running when he set the 100 metres world record? Probability Can a mathematician predict the future?
Year 10	Trigonometry Is a triangle with side lengths 3.5cm. 12.5cm and 12cm right angled? Trigonometry Is a triangle with side lengths 3.5cm. 12.5cm and 12cm right angled?	Equations and Inequalities How do I draw a picture of equation? Simultaneous Equations How do I solve an equation with a graph?	Angles and Bearings Why do planes not crash into one another? Circle Geometry What maths knowledge can I apply to a chocolate orange?	Ratio and Fractions How do I know ensure I get the best deal at the supermarket? Percentage and Interest How do I invest my money wisely?	Probability Is the national lottery worth the money? Data What is the average number of goals scored by Lincoln in the last 3 seasons?	Non-Calculator Methods How do I check my answers make sense? Types of Number and Sequences How do prime numbers keep the internet safe? Indices and Roots How do we write a googol numerically?
Year 11	Circle Theorems Why are they theorems and not theories? Geometric Theories (Trigonometry) Why is trigonometry important in maritime navigation?	Data Why is it important to visualise data? Algebraic Proof How can we prove ideas using algebra?	Vectors What is the magnitude of the wind? Advanced Graphs Why are suspension bridges parabolas?	Revision	Revision / Exams	Revision / Exams