

Curriculum Long Term Planning Overview

Key Stage 3

Subject Area: Maths

Academic Year: 2018-19

Year	Study Modules	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 7 Set 1	Study Modules	<p>Indices and Roots</p> <p>Calculate with powers and roots</p> <p>Explore the use of standard form</p> <p>Explore the effects of rounding</p> <p>Algebraic Manipulation</p> <p>Understand the notation of algebra</p> <p>Manipulate algebraic expressions</p> <p>Evaluate algebraic statements</p>	<p>Algebraic Manipulation</p> <p>Understand the notation of algebra</p> <p>Manipulate algebraic expressions</p> <p>Evaluate algebraic statements</p> <p>Visualising and Constructing</p> <p>Know standard mathematical constructions</p> <p>Apply standard mathematical constructions</p> <p>Explore ways of representing 3D shapes</p>	<p>Algebraic Expressions and Formulae</p> <p>Understand equations and identities</p> <p>Manipulate algebraic expressions</p> <p>Construct algebraic statements</p> <p>Proportional Reasoning</p> <p>Solve problems involving different types of proportion</p> <p>Investigate ways of representing proportion</p> <p>Understand and solve problems involving congruence</p> <p>Understand and solve problems involving similarity</p> <p>Know and use compound units in a range of situations</p>	<p>Proportional Reasoning</p> <p>Solve problems involving different types of proportion</p> <p>Investigate ways of representing proportion</p> <p>Understand and solve problems involving congruence</p> <p>Understand and solve problems involving similarity</p> <p>Know and use compound units in a range of situations</p> <p>Sequences I</p> <p>Explore sequences</p>	<p>Algebraic Proficiency – Visualising</p> <p>Plot and interpret linear graphs</p> <p>Plot and quadratic graphs</p> <p>Model real situations using linear graphs</p>	<p>Algebraic Proficiency – Visualising</p> <p>Plot and interpret linear graphs</p> <p>Plot and quadratic graphs</p> <p>Model real situations using linear graphs</p> <p>Solving Equations and Inequalities</p> <p>Solve linear equations with the unknown on one side</p> <p>Solve linear equations with the unknown on both sides</p> <p>Explore connections between graphs and equations</p>
	Assessment	Open book end of topic assessment	Closed book end of term test	Open book end of topic assessment	Open book end of topic assessment	Open book end of topic assessment	Closed book end of term test

Year	Study Modules	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 8 Set 1	Study Modules	<p>Conjecturing</p> <p>Explore the congruence of triangles</p> <p>Investigate geometrical situations</p> <p>Form conjectures</p> <p>Create a mathematical proof</p> <p>Sequences II</p> <p>Investigate Fibonacci numbers</p> <p>Investigate Fibonacci type sequences</p> <p>Explore quadratic sequences</p> <p>Solving Equations and Inequalities I</p> <p>Explore the meaning of an inequality</p> <p>Solve linear inequalities</p>	<p>Probability</p> <p>Understand and use tree diagrams</p> <p>Develop understanding of probability in situations involving combined events</p> <p>Use probability to make predictions</p>	<p>Algebraic Functions</p> <p>Investigate features of straight line graphs</p> <p>Explore graphs of quadratic functions</p> <p>Explore graphs of other standard non-linear functions</p> <p>Create and use graphs of non-standard functions</p> <p>Solve kinematic problems</p>	<p>Presentation of Data</p> <p>Construct and interpret graphs of time series</p> <p>Interpret a range of charts and graphs</p> <p>Interpret scatter diagrams</p> <p>Explore correlation</p>	<p>Solving Equations and Inequalities III</p> <p>Solve simultaneous equations</p> <p>Use graphs to solve equations</p> <p>Solve problems involving simultaneous equations</p>	<p>Transformation</p> <p>Explore enlargement of 2D shapes</p> <p>Investigate the transformation of 2D shapes</p>
	Assessment	Open book end of topic assessment	Closed book end of term test	Open book end of topic assessment	Open book end of topic assessment	Open book end of topic assessment	Closed book end of term test