

Key Stage 3 Curriculum Map 2020 - 2021

Term 1

Subject: Mathematics		Year: 9	
Focus/Topic	Objectives	Key Skills	Home Learning / Reading
• Indices	To be able to apply the laws of indices, including with negative indices.	Reasoning.	<ul style="list-style-type: none"> • Dr Frost Maths • Corbett Maths • CGP Workbooks • Problem Solving activities
• Standard Form	To be able to write numbers in standard form and apply the 4 operations.	Relation to the real world/application Reasoning.	
• Percentage Change & Reverse Percentages	To write one number as a fraction of another. To calculate the original price of an item in a sale.	Use of a ratio table.	
• Interest & Depreciation	To be able to calculate simple and compound interest. To be able find the depreciated value of an item after a given amount of time.	Converting between fractions, decimals and percentages. Interpretation of answers.	
Half Term			
• Speed, Distance & Time	To find an average speed, given a distance and time. To draw a speed, distance and time graph.	Graph drawing. Use of a ratio table.	<ul style="list-style-type: none"> • Dr Frost Maths • Corbett Maths • CGP Workbooks • Problem Solving activities
• Currency Conversion	To convert between several currencies given exchange rates.	Relation to the real world. Multiplication of decimals.	
• Pythagoras' Theorem in 3D	To be able to find the lengths of space diagonals.	Knowledge of square roots. Spatial awareness.	
• Arcs & Sectors	To be able to find the area and perimeter of sectors.	Knowledge of area and perimeter of circles and semicircles.	
• Volume & Surface Area of Prisms & Cylinders	To be able to find the volume and surface area of triangular prisms and cylinders.	Spatial awareness.	

Winter Break