

Year: 9

Subject: Mathematics

Summer Term		
Overarching Topic:		
What has come before and what comes later:	Spring term covers number, percentages, money, deduction, rotation, translation and Pythagoras' theorem.	
	Foundation	Higher
The Big Questions (What questions will students be able to answer upon mastery of the topic?)	<p>Are you able to enlarge a given shape by positive scale factor? Are you able to enlarge a shape from a given point? What is meant by a 'similar shape'? Are you able to find missing lengths in similar shapes?</p> <p>Are you able to solve direct proportion problems? Can you identify the graph of 2 quantities in direct proportion? Are you able to use conversion graphs? Can you solve proportion problems given a part or whole? Can you calculate with simple inverse proportion? Are you able to calculate the 'best buy' in a unit pricing problem?</p> <p>Are you able to work with speed, distance and time? Are you able to calculate using density? Are you able to work with compound units?</p> <p>What is relative frequency? How do you calculate relative frequency? How would you calculate the expected number of outcomes? What are independent events? How are independent events used in probability calculations?</p> <p>Are you able to plot a quadratic graph using a table of values? Are you able to read points from a drawn quadratic graph?</p>	<p>Are you able to enlarge a given shape by positive scale factor? Are you able to enlarge a shape from a given point? What is meant by a 'similar shape'? Are you able to find missing lengths in similar shapes? Are you able to enlarge a shape by a negative scale factor? Can you explore the similar ratios in right-angled triangles?</p> <p>Are you able to solve direct proportion problems? Can you identify the graph of 2 quantities in direct proportion? Are you able to use conversion graphs? Can you solve proportion problems given a part or whole? Can you calculate with simple inverse proportion? Are you able to calculate the 'best buy' in a unit pricing problem? Are you able to identify an inverse proportion graph?</p> <p>Are you able to work with speed, distance and time? Are you able to calculate using density? Are you able to work with compound units? Can you convert compound measures?</p> <p>What is relative frequency? How do you calculate relative frequency? How would you calculate the expected number of outcomes? What are independent events?</p>

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	<p>Are you able to identify other types of graphs?</p> <p>Are you able to represent inequalities using a diagram?</p>	<p>How are independent events used in probability calculations?</p> <p>Can you represent events on a tree diagram?</p> <p>Can you calculate probabilities using a tree diagram?</p> <p>Are you able to plot a quadratic graph using a table of values?</p> <p>Are you able to read points from a drawn quadratic graph?</p> <p>Are you able to identify other types of graphs?</p> <p>Are you able to represent inequalities using a diagram?</p> <p>Are you able to solve simultaneous equations graphically?</p>
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