

Year: 8

Subject: Mathematics

Summer Term		
Overarching Topic:		
What has come before and what comes later:	Spring term covers brackets, equations, inequalities, sequences, indices, fractions, percentages, standard index form and number sense.	
	Foundation	Higher
The Big Questions (What questions will students be able to answer upon mastery of the topic?)	<p>Are you able to identify angles in parallel lines? Are you able to understand and use geometric notation? Can you work out angles in special quadrilaterals? Can you find the sum of interior angles of a polygon? Can you use this rule to find missing interior angles? What is the sum of the exterior angles of a polygon? Can you find missing exterior angles of a polygon? Can you prove simple geometric facts?</p> <p>Can you find the area of basic shapes using their formulae? Can you calculate the area of a trapezium? Can you identify parts of a circle? Can you calculate area of a circle? Can you use significant figures? Can you calculate the area of a compound shape?</p> <p>Can you recognise lines of symmetry in shapes? Can you reflect a shape in a horizontal or vertical line? Can you reflect a shape in a diagonal line? Are you able to identify and draw the equations of the mirror line?</p> <p>What is meant by primary and secondary data? Are you able to use these types of data? Can you collect data, including using questionnaires? Are you able to construct statistical diagrams? E.g bar charts Are you able to interpret statistical diagrams? Are you able to construct and interpret pie charts?</p>	<p>Are you able to identify angles in parallel lines? Are you able to understand and use geometric notation? Can you work out angles in special quadrilaterals? Can you find the sum of interior angles of a polygon? Can you use this rule to find missing interior angles? What is the sum of the exterior angles of a polygon? Can you find missing exterior angles of a polygon? Can you prove simple geometric facts?</p> <p>Can you find the area of basic shapes using their formulae? Can you calculate the area of a trapezium? Can you identify parts of a circle? Can you calculate area of a circle? Can you use significant figures? Can you calculate the area of a compound shape?</p> <p>Can you recognise lines of symmetry in shapes? Can you reflect a shape in a horizontal or vertical line? Can you reflect a shape in a diagonal line? Are you able to identify and draw the equations of the mirror line? Can you perform standard constructions? Can you use the properties of the diagonals in quadrilaterals?</p> <p>What is meant by primary and secondary data? Are you able to use these types of data? Can you collect data, including using questionnaires? Are you able to construct statistical diagrams? E.g bar charts</p>

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	<p>Can you compare distributions using diagrams? Can you identify misleading graphs?</p> <p>Can you find the mean, median and mode from a list of data? Can you find the mean from a frequency table? Can you find the mean from grouped data? Can you work out the mode and modal class? Are you able to choose the appropriate average? Can you compare distribution using measures?</p>	<p>Are you able to interpret statistical diagrams? Are you able to construct and interpret pie charts? Can you compare distributions using diagrams? Can you identify misleading graphs? Are you able to explore histograms for unequal groups?</p> <p>Can you find the mean, median and mode from a list of data? Can you find the mean from a frequency table? Can you find the mean from grouped data? Can you work out the mode and modal class? Are you able to choose the appropriate average? Can you compare distribution using measures? Can you find unknown values when given the mean? Can you find the median from a table of values?</p>
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