

Year: 7

Subject: Mathematics

Summer Term		
Overarching Topic:		
What has come before and what comes later:	Previously spring term covers addition, subtraction, multiplication, division, fractions, percentages and directed number.	
	Foundation	Higher
The Big Questions (What questions will students be able to answer upon mastery of the topic?)	<p>Are you able to understand lettering notation for shapes and angles? Can you use mathematical equipment to measure lines and angles accurately? What are the different classifications for angles? What is a parallel line? What is a perpendicular line? Are you able to draw these lines? Are you able to identify different types of shapes? Can you construct triangles using SSS, ASA, SAS? Can you draw and interpret pie charts?</p> <p>What is the sum of angles on a straight line? What is the sum of angles around a point? What is the relationship with vertically opposite angles? Are you able to use these rules to find missing angles? What is the sum of angles in a triangle? What is the sum of angles in a quadrilateral? Are you able to find missing angles in a triangle or quadrilateral? What are the different types of triangles?</p> <p>Do you have a range of strategies when dealing with mental calculations? Can you give an example of one? Can you use known calculation facts to work out related calculations? Can you evaluate an algebraic expression, given a related fact?</p>	<p>Are you able to understand lettering notation for shapes and angles? Can you use mathematical equipment to measure lines and angles accurately? What are the different classifications for angles? What is a parallel line? What is a perpendicular line? Are you able to draw these lines? Are you able to identify different types of shapes? Can you construct triangles using SSS, ASA, SAS? Can you draw and interpret pie charts?</p> <p>What is the sum of angles on a straight line? What is the sum of angles around a point? What is the relationship with vertically opposite angles? Are you able to use these rules to find missing angles? What is the sum of angles in a triangle? What is the sum of angles in a quadrilateral? Are you able to find missing angles in a triangle or quadrilateral? What are the different types of triangles? Are you able to use rules of angles in parallel lines? What is the sum of angles inside a polygon? Can you derive simple proofs for angle properties?</p>

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	<p>Are you able to use rounding to estimate calculations?</p> <p>Can you understand and use set notation?</p> <p>Are you able to draw a venn diagram?</p> <p>Are you able to interpret a venn diagram?</p> <p>Can you understand the language of probability?</p> <p>What are the values that all probabilities must lie between?</p> <p>Can you calculate the probability of a single event?</p> <p>What is the probability of rolling a 5 on a fair dice?</p> <p>Are you able to use the fact that all probabilities sum to 1?</p> <p>Can you recognise prime numbers?</p> <p>What is a square and cube number?</p> <p>Can you recognise a triangular number?</p> <p>Can you express a number as a product of its prime factors?</p> <p>What is a power?</p> <p>Are you able to use powers and roots?</p> <p>Can you make and test conjectures?</p> <p>Can you understand counter examples?</p>	<p>Do you have a range of strategies when dealing with mental calculations?</p> <p>Can you give an example of one?</p> <p>Can you use known calculation facts to work out related calculations?</p> <p>Can you evaluate an algebraic expression, given a related fact?</p> <p>Are you able to use rounding to estimate calculations?</p> <p>Can you understand and use set notation?</p> <p>Are you able to draw a venn diagram?</p> <p>Are you able to interpret a venn diagram?</p> <p>Can you understand the language of probability?</p> <p>What are the values that all probabilities must lie between?</p> <p>Can you calculate the probability of a single event?</p> <p>What is the probability of rolling a 5 on a fair dice?</p> <p>Are you able to use the fact that all probabilities sum to 1?</p> <p>What is the complement of a set?</p> <p>Can you use the complement?</p> <p>Can you recognise prime numbers?</p> <p>What is a square and cube number?</p> <p>Can you recognise a triangular number?</p> <p>Can you express a number as a product of its prime factors?</p> <p>What is a power?</p> <p>Are you able to use powers and roots?</p> <p>Can you make and test conjectures?</p> <p>Can you understand counter examples?</p> <p>Can you use prime factors to find HCF and LCM?</p>
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