

Year: 7

Subject: Mathematics

Autumn Term		
Overarching Topic:		
What has come before and what comes later:	KS2 would have largely focused upon number skills, where some students may have had exposure to some basic algebra terms dependent upon the KS2 teacher's skills. Following Autumn, the topics which follow are application of number and directed number and fractional thinking	
	Foundation	Higher
The Big Questions (What questions will students be able to answer upon mastery of the topic?)	<p>What is meant by a sequence? What is meant by linear sequence? Can you give an example of a linear sequence? What is a term in a sequence? Can you give an example?</p> <p>Can you give an example of a one-step equation? What is the general method to solve an equation with one unknown? Why is the equals sign important in an equation?</p> <p>What is meant by 'collecting like terms'? How would you describe what an integer is?</p> <p>Can you read and write numbers up to and including 9 digits? Do you know place value for 1,2 and 3 decimal places? Can you give an example of where you would use a number line? Do you know the definition of < or >?</p> <p>Can you put a list of numbers into ascending and descending numbers? How would you calculate the range for a set of numbers? Why is ordering numbers important when calculating the median? What is meant by the term 'significant figure'? Can you round to powers of 10 and 1 significant figure?</p> <p>Can you provide methods in order to convert between fractions, decimals and percentages? Are you able to recognise a sector as a fraction of a pie chart? Are you able to give examples of equivalent fractions?</p>	<p>What is meant by a sequence? What is meant by linear sequence? Can you give an example of a linear sequence? What is a term in a sequence? Can you give an example? Can you give an example of any sequences that are non-linear?</p> <p>Can you give an example of a one-step equation? What is the general method to solve an equation with one unknown? Why is the equals sign important in an equation?</p> <p>Can you read and write numbers up to and including 10 digits? Do you know place value for 1,2, 3 and 4 decimal places? Can you give an example of where you would use a number line? Do you know the definition of < or >? Why would we need to use these symbols?</p> <p>Can you put a list of numbers into ascending and descending numbers? How would you calculate the range for a set of numbers? Why is ordering numbers important when calculating the median? What is meant by the term 'significant figure'? Can you round to powers of 10 and 1 significant figure?</p> <p>Can you put a list of numbers into ascending and descending numbers? How would you calculate the range for a set of numbers? Why is ordering numbers important when calculating the median? What is meant by the term 'significant figure'? Can you round to powers of 10 and 1 significant figure? How would you add and subtract fractions where the denominators are different?</p>