


Curriculum Overview: Year 7 Maths

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Sequences Algebraic Notation Equations	Place value & ordering Fraction, Decimal & percentage equivalence	Application of number	Directed number and fractional thinking	Lines and Angles Construction and measuring Geometric reasoning	Reasoning with number Sets and probability Prime number and proofs
<p>Links to prior learning (KS2): Factors, Multiples, Times Tables, Ordering numbers, Negative numbers, Short Division, Long Multiplication, Use a ruler/Protractor, Names of 2D and 3D shapes.</p> <p>Stretch and Challenge Enquiry How do you create geometric sequences? Does the method change to solve 1 step equations when trying to solve 2 step equations?</p>	<p>Links to prior learning Place value</p> <p>Stretch and Challenge Enquiry Can you have fractions above a value of 1? Can you convert multiples of $\frac{1}{8}$ to decimals and percentages?</p>	<p>Links to prior learning Numerical operations FDP</p> <p>Stretch and Challenge Enquiry When would standard form be useful in the real world? Where in nature would you see lowest common multiple in action?</p>	<p>Links to prior learning Inequality number lines Sequences, substitution, equations</p> <p>Stretch and Challenge Enquiry Why can you have two answers when you use square roots?</p>	<p>Links to prior learning Simplifying, Perimeter, equations, operations</p> <p>Stretch and Challenge Enquiry What are the links with angles in parallel lines? How do you find the sum of the interior angles in n sided polygon?</p>	<p>Links to prior learning Fraction, decimal & percentage equivalence</p> <p>Stretch and Challenge Enquiry How do you use prime factors to find HCF and LCM?</p>
Equipment Needed		Wider Reading		Family activities	
Scientific calculator Pair of compasses Ruler Pencil protractor		 <p>Infinity and Me Uma can't help feeling small when she peers up at the night sky. She begins to wonder about infinity. Is infinity a number that grows forever? Is it an endless racetrack? Could infinity be in an ice cream cone? Uma soon finds that the ways to think about this big idea may just be . . . infinite</p>		Maths games https://nrich.maths.org/9465	