

<b>What? When? Why?</b>	<b>Lesson 1 Learning intentions</b> (what can a student do at the end of the lesson)	<b>Lesson 2 Learning intentions</b> (what can a student do at the end of the lesson)	<b>Lesson 3 Learning intentions</b> (what can a student do at the end of the lesson)	<b>Lesson 4 Learning intentions</b> (what can a student do at the end of the lesson)
Week 1	Order positive and negative integers  Use the symbols =, ≠, <, >, ≤, ≥ Represent inequalities on a number line(R) Perform 4 operations with integers(R)	Perform 4 operations with decimals including ordering (R)	Find and use equivalent fractions. Order fractions. Simplify fractions.(R)	Perform 4 operations with fractions (R)
Week 2	Understand and use acute, obtuse and reflex. Measure and draw angles.(R) Perform calculations with angles: on a straight line, adjacent at a point, in a triangle.Vertically opposite angles exterior angles of a triangle(R)	Know names and properties of isosceles, equilateral, scalene, right-angled, acute-angled, obtuse-angled triangles. (R)  Interior and exterior alternate angles.(R) Corresponding angles(R) Co interior angles(R)	Changing between metric units of length(R). Use scale factors, scale diagrams and maps.(R)	To recognise and sketch bearings.
Week 3	Solve problems involving bearings including “given bearing of A from B find bearing of B from A”	Understand the meaning of congruent and similar shapes. Appreciate that similar shapes are enlargements and that magnitude of angles is preserved.(R) Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS)(R)	Apply angle facts, triangle congruence, similarity and properties of quadrilaterals to conjecture and derive results about angles and sides, including the fact that the base angles of an isosceles triangle are equal, and use known results to obtain simple proofs	Derive and apply the properties and definitions of:  special types of quadrilaterals, including square, rectangle, parallelogram, trapezium, kite and rhombus
Week 4	Know and apply the sum of the exterior angles of a polygon.	Know and apply the sum of the interior angles of a polygon.	Be able to find an interior angle of a regular polygon.	Problem solve with regular polygons-e.g. given an exterior angle find the number of sides.
Week 5	Use and interpret algebraic notation, including(R):  Understand and use the concepts and vocabulary of expressions, equations, formulae, <u>identities</u> , inequalities, terms and factors	Use conventional notation for priority of operations, including brackets, powers, roots and reciprocals	Simplify and manipulate algebraic expressions by:  collecting like terms  multiplying a single term over a bracket	Simplify and manipulate algebraic expressions by:  taking out common factors
Week 6	Generate terms of a sequence from either a term-to-term or a position-to-term rule	Understand and use n <sup>th</sup> term of a linear sequence and a quadratic sequence	Find the term to term and position to term rule of a linear sequence. Find the n <sup>th</sup> term of a linear sequence.	Recognise and use:  triangular, square and cube numbers, arithmetic, geometric, Fibonacci and quadratic sequences
Week 7	Find the n <sup>th</sup> term of a quadratic sequence	Find the n <sup>th</sup> term of a quadratic sequence		