YEAR 10 FOUNDATION

HALF TERM 1

What? **When?** **Why?**	**Lesson 1** **Learning intentions** (what can a student do at the end of the lesson)	**Lesson 2** **Learning intentions** (what can a student do at the end of the lesson)	**Lesson 3** **Learning intentions** (what can a student do at the end of the lesson)	**Lesson 4** **Learning intentions** (what can a student do at the end of the lesson)
Week 1	Order positive and negative integers Use the symbols $=$, $\neq$, $<$, $>$, $\leq$, $\geq$Represent inequalities on a number line	Perform 4 operations with integers and decimals	Find and use equivalent fractions. Order fractions. Simplify fractions.	Perform 4 operations with fractions
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)
Week 3	Understand the meaning of congruent and similar shapes. Appreciate that similar shapes are enlargements and that magnitude of angles is preserved. Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS)	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	Know and apply the sum of the exterior angles of a polygon.
Week 4	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-given an exterior angle find the number of sides.	Past paper questions
Week 5	Use and interpret algebraic notation, including(R): Understand and use the concepts and vocabulary of expressions, equations, formulae, identities, 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	Simplify and manipulate algebraic expressions by: multiplying a single term over a bracket
Week 6	Simplify and manipulate algebraic expressions by: taking out common factors	Recognise and use:triangular, square and cube numbers, arithmetic, geometric, Fibonacci and quadratic sequences	Generate terms of a sequence from either a term-to-term or a position-to-term rule	Understand and use n'th term of a linear sequence
Week 7	Find the n'th term of a linear sequence.	Past paper questions		