YEAR 11 FOUNDATION

HALF TERM 2

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	Understand expression, formulae, identities, inequalities, term and expression. Substitution (inc negatives and fractions) into linear expressions	Substitution (inc negatives and fractions) into expressions involving powers and fractions	Collect like terms and expand brackets.	Expand brackets and simplify	
Week 2	Factorise into a single bracket.	Identify the properties of the faces, surfaces, edges and vertices of : cubes, cuboids, cylinders, pyramids, cones and spheres.	Change between metric units of length. Calculate perimeter of 2d shapes including rectilinear compound shapes	Find the area of rectangles. Find a side given the area and the other side of a rectangle Know and apply the formulae to find the area of a parallelogram..	
Week 3	Know and apply the formulae to find the area of a triangle	Know and apply the formulae to find the area of a trapezium.	Find the area of compound shapes.	Find the surface area of cubes and cuboids	
Week 4	Find the surface area of prisms	Identify and apply circle definitions and properties, including centre, radius, chord, diameter, circumference, tangent, arc, sector and segment	In terms of π, know and use the formulae for the circumference of a circle.	In terms of π, know and use the formulae for the area of a circle.	
Week 5	With the use of a calculator know and use the formulae for the circumference of a circle.	With the use of a calculator know and use the formulae for the area of a circle.	In terms of π, find the area of a semi circle and quadrant.	In terms of π, find the perimeter of a semi circle and quadrant	
Week 6	With the use of a calculator find the area of a semi circle and quadrant	With the use of a calculator find the perimeter of a semi circle and quadrant.	Know and use the formula for the volume of a cylinder in terms of π.	With a calculator know and use the formula for the volume of a cylinder	
Week 7	Derive and apply the properties and definitions of:special types of quadrilaterals, including square, rectangle,	Understand and use sum of the exterior angles of a polygon	By using the angle sum of a triangle deduce the sum of the interior angles of a polygon.	By an appropriate method calculate an interior angle of a regular polygon.	

parallelogram, trapezium, kite and rhombus. knowing names and properties of isosceles, equilateral, scalene, right-angled, acute-angled, obtuse-angled triangles. including knowing names and using the polygons: pentagon, hexagon, octagon and decagon			