

YEAR 9 THRESHOLD CRITERIA -CYCLE 3				
MATHS				
	Unit 7	Unit 8	Unit 9	Unit 10
	Standard Form	Simultaneous Equations	Surface Area and Volume	Advanced Manipulating and Simplifying Expressions
Excellent	Adding and subtracting numbers in standard form through an efficient method	Construct linear simultaneous equations from real life contexts Represent solutions to simultaneous equations graphically	Work out the surface area and volume of spheres, pyramids and cones Use scale factors of volume to solve similarity problems	Expand triple brackets Factorise a quadratic where the coefficient of x squared larger than 1 Use the four operations with algebraic fractions
Proficient	Comparing and ordering numbers written in both normal and standard forms Multiplying and dividing by using index laws Adding and subtracting by converting back to normal form	Find the solution to two simultaneous linear equations by elimination, where coefficients are not equal Find the solution to two simultaneous linear equations by substitution	Use of Euler's formula Work out the volume of other prisms, including cylinders Work out the surface area of cylinders Use scale factors of length and area to solve similarity problems	Factorise the difference of two squares Simplify algebraic fractions
Developing	Write large numbers in standard form Write small numbers in standard form Comparing and ordering numbers in standard form	Find the solution to two simultaneous linear equations by elimination, where coefficients are equal Solve simple linear simultaneous equations in context	Identify planes of symmetry Use isometric drawing to represent 3D shapes Work out the surface area of prisms involving triangles and rectangles	Expand double brackets Factorise a quadratic where the coefficient of x squared is 1
Acquiring	Multiply integers and decimals by powers of 10 Convert standard form back to normal form	Solve linear equations involving 2 variables Identify points of intersection of 2 lines	Name polyhedra and identify the number of faces, edges and vertices Accurately construct nets Draw plans and elevations Work out the volume and surface area of cubes and cuboids	Expand single brackets Factorise into a single bracket