NAME		TEACHER				
My GCSE Target Grade is		End of Cycle Teacher Assessment Please circle				
		SAE	AE	E	BE	SBE
End of unit assessment type		Your end of topic assessment will be a written exam.				

YEAR 8 CYCLE 3: DECIMALS / ANGLES / TRANSFORMATIONS

	Knowledge	Prior knowledge	End of topic
7 to 9	**Transformations 1** - I can describe and carry out both **Translations** & **Reflections**		
	Rotation – I can describe and carry out rotations around a point and on a coordinate axis		
	Enlargement – I can enlarge a shape using positive and negative / fractional scale factors		
	Combining transformations – Use a combination of transformations		
	Recurring Decimals – I can recognise fractional equivalents to important recurring decimals and change a recurring decimal into a fraction		
	Percentage Change – I can calculate percentages, work out an original quantity before a percentage increase or decrease and calculate compound interest		
6	**Decimals** – I can round whole numbers and decimals and order positive & negative decimals		
	Multiplication – I can multiply numbers with more than 3 digits and multiply decimals with up to two decimal places		
	More Decimals – I can add / subtract decimals of any size and divide by 0.1, 0.5 and 0.01 **Ratio and Proportion with decimals** – Solving ratio problems involving decimals		
	Angles – I can use parallel lines facts (alternate / corresponding) to find unknown angles		
	Exterior & Interior Angles – I can calculate the sum of the interior and exterior angles of a polygon and use this to find individual angles		
	Angle Problems - I can find unknown angles in polygons using a combination of angle facts		
	Angle Problems with Algebra – I can find unknown angles by forming and solving equations		
5	**Decimals** - I can add and subtract decimals up to three decimal places		
	Multiplying Decimals - I can multiply decimals up to two decimal places		
	Angles – I can use a protractor to measure and draw acute, obtuse and reflex angles		
	Angles in Triangles – I can work out the size of unknown angles in a triangle		
	Drawing Triangles – I can accurately draw different triangles using a ruler and protractor		
	Designing Nets – I can accurately draw a net of a 3D shape		

LEARNING TOOLS

KEY CONCEPTS	**Ordering Decimals**	To order numbers we must first be able to compare.	
	Exterior Angles	Interior and exterior angles add up to make _____	
KEY QUESTIONS	What equipment do we need to draw a triangle accurately?	How would you describe a rotation?	How many nets of a cube are there?
KEY EQUATION		***Volume of a Pyramid =*** ***Area of Base x Perpendicular Height***	

YEAR 8 CYCLE 3: DECIMALS / ANGLES / TRANSFORMATIONS

	Skills	Prior knowledge	End of topic
7 to 9 Delta	R2 - use scale factors, scale diagrams and maps		
	G7 - identify, describe and construct congruent and similar shapes, including on coordinate axes, by considering rotation, reflection, translation and enlargement (including fractional **and negative** scale factors)		
	G24 - describe translations as 2D vectors		
	N10 - work interchangeably with terminating decimals and their corresponding fractions and **change recurring decimals into their corresponding fractions and vice versa**		
	R16 - set up, solve and interpret the answers in growth and decay problems, including compound interest		
6 Theta	N15 - round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places)		
	G3 - apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles; understand and use alternate and corresponding angles on parallel lines; derive and use the sum of angles in a triangle		
	G4 - apply the properties and definitions of special types of quadrilaterals, including square, rectangle, parallelogram, trapezium, kite and rhombus; and triangles and other plane figures using appropriate language		
5 Pi	N1 - order positive and negative decimals; use the symbols =, ≠, <, > , ≤, ≥		
	G1 - use notation: points, lines, vertices, edges, planes, parallel lines, perpendicular lines, right angles, polygons, regular polygons and polygons with reflection and/or rotation symmetries		
	G6 - apply angle facts, triangle congruence, the fact that the base angles of an isosceles triangle are equal, and use known results to obtain simple proofs		

EVERYBODY READS… IN MATHS!

KEY WORDS	Discount	Pyramid	Quadrilateral	Scale Factor	Enlargement

PROBLEM OF THE CYCLE

Which triangle has an area of 1?