

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

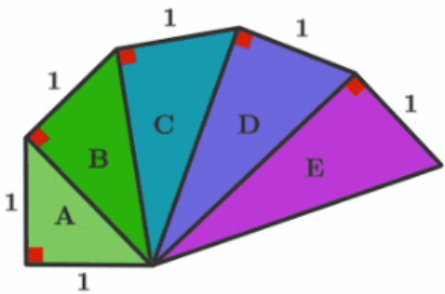
KEY CONCEPTS	Ordering Decimals	To order numbers we must first be able to compare.	
	Exterior Angles	Interior and exterior angles add up to make _____	
KEY QUESTIONS	What equipment do we need to draw a triangle accurately?	How would you describe a rotation?	How many nets of a cube are there?
KEY EQUATION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

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 <u>fractional and negative scale factors</u>)		
	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 - <u>set up, solve and interpret the answers in growth and decay problems, including compound interest</u>		
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 - <u>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</u>		

EVERYBODY READS... IN MATHS!

	Discount	Pyramid	Quadrilateral	Scale Factor	Enlargement
KEY WORDS					

PROBLEM OF THE CYCLE	<p style="text-align: center;">Which triangle has an area of 1?</p> <div style="text-align: center;">  </div>
-----------------------------	--