	Subject: Mathematics		
Theme / Area Covered	Shape 3 End Points		
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9
Key Objectives / Learning Pathway **Emerging**	Use a protractor accurately to measure angles up to 180° Know that angles in a quadrilateral must = 360° Know that angles in a triangle must = 180° Find unknown angles in triangles Find unknown angles in Quadrilaterals	Use a protractor accurately to measure angles up to 360° Use a protractor accurately to construct angles up to 180° Find missing angles around a point Find missing angles on a straight line Find unknown angles in isosceles triangles Find missing angles that are vertically opposite	Use a protractor accurately to construct angles up to 360° Recognise and solve problems involving vertically opposite angles Recognise and solve problems involving angles around a point Recognise and solve problems involving angles on a straight line
Key Objectives / Learning Pathway **Developing**	Use a protractor accurately to measure angles up to 360° Use a protractor accurately to construct angles up to 180° Find missing angles around a point Find missing angles on a straight line Find unknown angles in isosceles triangles Find missing angles that are vertically opposite	Use a protractor accurately to construct angles up to 360° Recognise and solve problems involving vertically opposite angles Recognise and solve problems involving angles around a point Recognise and solve problems involving angles on a straight line	Solve missing angle problems involving alternate or corresponding angles Use knowledge of alternate and corresponding angles to calculate missing angles in geometrical diagrams Establish the size of interior and exterior angles in regular polygons Solve missing angles problems in polygons
Key Objectives / Learning Pathway **Mastering**	Use a protractor accurately to construct angles up to 360° Recognise and solve problems involving vertically opposite angles Recognise and solve problems involving angles around a point Recognise and solve problems involving angles on a straight line	Solve missing angle problems involving alternate or corresponding angles Use knowledge of alternate and corresponding angles to calculate missing angles in geometrical diagrams Establish the size of interior and exterior angles in regular polygons Solve missing angles problems in polygons	Know the conditions for triangles to be congruent Use the conditions for congruent triangles
Key Objectives / Learning Pathway **Excelling**	Solve missing angle problems involving alternate or corresponding angles	Know the conditions for triangles to be congruent Use the conditions for congruent triangles	Using Pythagoras Theorem to find the length of the hypoteneuse Pythagorean triples

	Use knowledge of alternate and corresponding angles to calculate missing angles in geometrical diagrams Establish the size of interior and exterior angles in regular polygons Solve missing angles problems in polygons		