Birkdale High School	**Mathematics Department Foundation Stage**	**Curriculum Map**
Unit 8: Angles		**Year Group: 8**

<table>
<tr><td>INTENT: Aims of the Unit</td><td>IMPLEMENTATION: Knowledge and delivery</td><td>IMPACT: Assessment</td></tr>
<tr><td>In Mathematics Year 8 we are looking at students completing the Mastery approach to learning. In this unit we are looking at our first part of shape.

Students are introduced to different types of angles in 2D shapes and parallel lines. They start to learn how to calculate missing angles by recognising their properties.</td><td rowspan="2">Knowledge
● Working with 2D shapes
● Angle facts
● Angles in triangles
● Angles in Quadrilaterals
● Angles in parallel lines
● Angles in Polygons

Delivery
● Teacher led instruction using activstudio
● Class discussion
● WAGOLLs
● Random/Targeted Questioning
● Textbook questions
● Tutorial lessons

Possibly to include
● Variation theory
● Treasure hunts
● Puzzles
● Mathsbox settlers</td><td rowspan="2">What knowledge are you assessing?
● Identifying 2D shapes
● Recall of types of angle
● Correct use of a protractor in drawing and measuring types of angle
● Angle rules - straight line and round a point, vertically opposite, angles in a triangle and quadrilateral
● Properties of 3 types of triangle
● Properties of Quadrilaterals
● identifying corresponding, alternate and co-interior angles Identifying names of regular and irregular polygons by sides and angles
● Calculating exterior angle of any polygon
● Recall of formula to calculate the sum of interior angles of any polygon
● Exterior and interior angles add to 180^0
Which elements of fluency of knowledge are you assessing?
● Draw accurately any size angle using a protractor and ruler
● Calculate missing angles in diagrams using supporting angle knowledge</td></tr>
<tr><td>Enabling Learning

● know the difference between a point, a line a line segment and a plan
● know angles are measured in degrees with using a protractor
● angle on a straight line is 180 degrees</td></tr>
<tr><td colspan="2">Key Vocabulary</td><td>Wider Learning</td></tr>
<tr><td>Tier 2: High frequency / Multiple meaning
angle, corresponding, alternate, obtuse, reflex, complementary, supplementary, parallel, interior, exterior</td><td>Tier 3: Subject related.
protractor, line segment, vertex, acute, right angle, perpendicular, pentagon, hexagon, polygon, heptagon, octagon, decagon</td><td>SMSC / RWCM / CEIAG</td></tr>
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