

Maths**Year 8****Geometry**

Year group 8	Subject: Geometry
Prior learning- linked to National curriculum	Students will have already covered geometry in terms of angles and the area of basic 2D shapes in some forms of chart both in Year 7 and KS2, but will now extend onto looking at angles with polygons and involving parallel lines, which will draw upon previous KS3 angle coverage. Students will have looked at basic 2D shape area and perimeter which will be consolidated, and then used to develop understanding in more complex shapes.
Rationale	The year starts with work focusing on number and algebra, so students should have an understanding and exposure of some of the topics which crossover onto elements of Geometry. Students will be extending upon prior learning across the topic reviewing some more complex angle work as well as exploring the area of the circle and trapezia.
Vocabulary:	Keywords Exterior, interior, parallel, alternate, corresponding, diameter, radius, circumference, symmetry, reflection.
Cultural Capital:	When covering the topics of angles as well as area, there are plenty of real life examples which can be drawn upon, and many vocations for which the skill sets can be applied. When reviewing circles, there is also an opportunity to provide an historical context.
Key assessments- name the assessments	Mini Assessment for: <ul style="list-style-type: none"> ● Angles in polygons/Angles in parallel lines ● Area of circles and trapezia ● Reflection and lines of symmetry In addition for this a Unit wrapper for this Term.
What do children know/ can do now (EDSM)	All students have previously worked with both area and angles, but year 8 does extend markedly on prior learning within these topics, and for students to have mastered this topic, they will need to be fluent across the three mini assessment topics in their extended form. Any gaps will be addressed as we go on and Further highlighted in the unit wrapper.