Bishop Heber High School

Subject	Year	Term
Maths	8	3

Topic

Developing Geometry and Reasoning with Data

Content (Intent)

Prior Learning (Topic) Decimal calculations, statistics, transformations, equations, indices and sequences

- Angles in parallel lines and polygons
- Area of trapezia and circles
- Line symmetry and reflection
- The data handling cycle
- Measures of location

Future Learning (Topic) **Probability, Number and Shape**

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
• Investigating angles within parallel lines (including complex problems – H) • Properties of quadrilaterals leading into angles within quadrilaterals and polygons • Constructions – angle and line bisectors • Calculations of area and perimeter within various 2D shapes • Investigate the area of a circle • Reflections of shapes within horizontal, vertical and diagonal lines	<u>Ongoing Assessment</u> • Q&A in plenary • Mini-whiteboards • Self and Peer assessment • One online homework per week • Composite assessment task • Feedback, Action and Challenge Time (FACT)
• Investigate and explore the data handling cycle • Represent data in graphs and charts • Find and interpret range and compare distributions of data • Understand mean, median and mode and choose the most appropriate average • Find mean from ungrouped and grouped data (H)	<u>Formal Assessment</u> • May – Assessment point 2

How can parents help at home?

Encourage use of Sparxmaths

Practise times tables on a regular basis. Review previously taught topics regularly

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading

Direct to the following websites;

Sparxmaths.com

www.mathsgenie.co.uk

Vocabulary Lists

Parallel
Transversal
Corresponding
Alternate
Bisector
Compound
Diameter/radius
Area/perimeter
Symmetrical
Hypothesis
Qualitative
Quantitative
Average
Range
Distribution
Outlier