Year 6 Summer Maths

Prior Learning		
Shape Position and direction Themed projects, consolidation and problem solving		
Key vocabulary for this unit		
Shape Angle Right angle Acute Obtuse Reflex Protractor Horizontal Vertical Parallel Perpendicular Polygon Regular Irregular Two-dimensional Three-dimensonal Flat face Curved surface Edge Curved edge Vertex Vertices	**Position and direction** Translate Translation Reflect Reflection Up Down Right Left Co-ordinates Quadrant x-axis y-axis horizontal vertical	**Themed projects, consolidation and problem solving** All vobularly re-looked at that has been looked at in previous units.

Apex Radius Diameter circumference		

Learning Sequence	
Shape	• To measure and classify angles • To calculate angles • Vertically opposite angles • Angles in a triangle/missing angles/special cases • Angles in quadrilaterals • Angles in polygoms • Circles • To draw shapes accurately • Nets of 3D shapes
Position and direction	• The first quadrant • Read and plot points in 4 quadrants • Solve problems with co-ordinates • Translations • reflections
Themed projects, consolidation and problem solving	• To consolidate all objectives that have been looked at throughout the year in themed-based tasks and projects.

Assessment milestones

Mathematical skills:

Shape

- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Position and direction

- describe positions on the full coordinate grid (all 4 quadrants)
- draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Themed projects, consolidation and problem solving

*OBJECTIVES THROUGHOUT THE YEAR ARE LOOKED AT AGAIN AND ARE APPLIED TO PROBLEM-SOLVING BASED TASKS AND PROJECT WORK.