**Year 6 Summer Maths**

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| Prior Learning  |
| ShapePosition and directionThemed projects, consolidation and problem solving |
| Key vocabulary for this unit |
| **Shape**AngleRight angleAcuteObtuseReflexProtractorHorizontalVerticalParallelPerpendicularPolygonRegularIrregularTwo-dimensionalThree-dimensonalFlat faceCurved surfaceEdgeCurved edgeVertexVerticesApexRadiusDiametercircumference | **Position and direction**TranslateTranslationReflectReflectionUpDownRightLeftCo-ordinatesQuadrantx-axisy-axishorizontalvertical | **Themed projects, consolidation and problem solving**All vobularly re-looked at that has been looked at in previous units. |
| 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
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| **Position and direction** | * The first quadrant
* Read and plot points in 4 quadrants
* Solve problems with co-ordinates
* Translations
* reflections
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| **Themed projects, consolidation and problem solving** | * To consolidate all objectives that have been looked at throughout the year in themed-based tasks and projects.
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| 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.  |