**Maths Medium Term Planning**

**Year Six**

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| **WR Block: Measurement: Perimeter, Area and Volume** | **Spring Term** |
| **National Curriculum Objectives** | **Small Steps** | **Prior Learning** | **Future Progression** |
| * Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
* Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres and square metres and estimate the area of irregular shapes.
 | * Shapes – same area
* Area and perimeter
* Area of a triangle- counting squares
* Area of a right-angled triangle
* Area of any triangle
* Area of a parallelogram
* Volume- counting cubes
* Volume of a cuboid

  | **Y5:*** Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
* Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres and square metres and estimate the area of irregular shapes.
 | **KS3:*** Change freely between related standard units [for example time, length, area, volume/capacity, mass].
* Derive and apply formulae to calculate and solve problems involving: perimeter and area of triangles, parallelograms, trapezia, volume of cuboids (including cubes) and other prisms (including cylinders.
* Calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes.
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| **Key Vocabulary****New Vocabulary:**centilitrecubic centimetres(cm3), cubic metres (m3),cubic millimetres (mm3), cubic kilometres(km3)circumference | **Key Vocabulary:****Previous Year Group:**imperial unitPintGallonyard, foot, feet, inch, inchesTonne,pound,ouncesquare metre (m2),square millimetre (mm2) | **Stem Sentences**The total number of squares in the rectangle is \_\_\_\_. The area of the rectangle is \_\_\_cm².The base is \_\_\_cm. The perpendicular height is \_\_\_cm. The base of the parallelogram is \_\_\_ cm. The perpendicular height of the parallelogram is \_\_\_ cm. The area of the parallelogram is \_\_\_×\_\_\_\_ = \_\_\_cm.The volume of the shape is \_\_\_\_cm³ . There are \_\_\_\_\_ cubes in each layer and \_\_\_\_\_ equal layers, so the volume is cubes \_\_\_\_ cm³ .The length is \_\_\_\_. The width is \_\_\_\_. The height is \_\_\_\_. The volume of the cuboid is \_\_\_×\_\_\_ ×\_\_\_\_ =\_\_\_\_. |
| **Concrete, Pictorial, Abstract Models/ Calculations**          |