| Unit 6 - Measures |  |  |
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| Learning Aim (WALT) | Activities | Learning Outcome (WILF) |
| Identify and compare units for measuring | - Set of objects for students to sort using the key words long, longer, longest, short, shorter, shortest, tall, taller, tallest, heavy, heavier, heaviest, light, lighter, lightest, more, less, most, least <br> - Decide which units to use for measuring different items $m m$, $\mathrm{cm}, \mathrm{m}, \mathrm{km}, \mathrm{mg}, \mathrm{g}, \mathrm{kg}, \mathrm{ml}, \mathrm{cl}, \mathrm{l}$ <br> - 10Ticks L3-6 pages $21,22,24,26$, <br> - 10Ticks L4-3 pages 27-32 <br> - 10Ticks L5-6 p15-18 | - Compare lengths using key words (E1) <br> - Choose appropriate standard units of length, capacity and weight (E2) <br> - Compare and orders lengths, capacities and weights given in the same units (E2) <br> - Read whole values from scales (E2) <br> - Choose appropriate measuring instruments for measuring (E3) <br> - Convert between measures (E3) <br> - Accurately read values from scales (E3) |
| Demonstrate drawing and measuring lines of specific lengths | - Draw and measure lines in turn of different lengths <br> - 10Ticks L3-6 p 19-20 <br> -10Ticks L5-3 p9-11 <br> -10Ticks L6-8 p27-32 <br> -MyMaths (Shape) - Scale \& Similarity (scale drawing, map scales, scale finding heights) <br> -MyMaths Loci | - Draw and measure lines in whole cm between 1 and 20cm (E1) <br> - Measure and draw lengths to mm accuracy (E2) <br> - Demonstrate drawing accurately using scale (L1) <br> - Demonstrate accurate constructions (L1) |
| Describe capacity, mass and density of objects | - Compare pictures or containers with liquids using the key words empty, quarter full, half full, three quarters full, full - 10Ticks L3-6 p 23, 25, 30, <br> -10Ticks L7/8-6 p27-28 | - Describe capacity in fractions using key words (E1) <br> - Describe weight using whole values on a scale (E2) <br> - Read values from an appropriate scale (E3) <br> - Calculate density (L1) |

## ACP Learning Outline - Mathematics

| Calculate values given in measures | - Measure lengths of shapes or objects in the room and add together to find perimeter. <br> - 10Ticks L4-3 p33-40 <br> - 10Ticks L4-8 p15-19 | - Calculate perimeter using cm squares to count the length (E1) <br> - Calculate perimeter in whole units by measuring lengths and adding them together (E2) <br> - Add lengths, capacities and weights given in the same units (E2) <br> - Convert between measures (E2) <br> - Add measures given in different standard units (E3) <br> - Calculate perimeter of shapes when given values (E3) <br> - Calculate perimeter of compound shapes (L1) |
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| Conversion Graphs | - 10Ticks L5-6 p29 | - Read values accurately from simple scales (E2) <br> - Accurately read values including negative and decimal from scales (E3) <br> - Demonstrate reading values from conversion graphs (L1) <br> Solve problems using information from conversion graphs (L1) |
| Area (polygons) | - MyMaths (Shape) - Area\&Perimeter (introducing area, rectangles, parallelogram, triangle, trapezium) <br> - 10Ticks L4-8 p15-20, 30, 31 <br> - 10Ticks L5-4 p36-40 <br> - 10Ticks L6-5 p21-22 <br> - 10Tikcs L7-6 p3-14 | - Identify area by counting squares (E3) <br> - Calculate area of rectangles and simple triangles (L1) <br> - Calculate area for quadrilaterals and simple compound shapes (L1) <br> - Apply area formulas to solve problems involving area (L1) Calculate surface area (L1) |
| Constructions | - MyMaths (Shapes) - constructions <br> - 10Ticks L5-3 p7-8 <br> - 10Ticks L6-4 p31-40 <br> - 10Ticks L6-8 p15-16, 27-32 <br> - L7-5 p3-10 | - Construct triangles using ruler and protractor (E3) <br> - Construct shapes using compasses and ruler (L1) Draw loci (L1) |


| Circles | - MyMaths(Shape) - Area \& Perimeter (circumference of circles, area of circle, arcs \& sectors) <br> - 10Ticks L6-5 p31-18 [31-38 printed - Ron] <br> - 10Tikcs L7-5 p15-22 | - Accurately draw circles (E2) <br> - Identify words relating to circles (E3) <br> - Calculate circumference of circle (L1) <br> - Calculate area of circle (L1) <br> Apply area and circumference skills to finding values for arcs and sectors (L2) |
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| Volume | - MyMaths (Shape) - volume <br> -10Ticks L4-8 p30 <br> -10Ticks L5-4 p41,42 <br> -10Ticks L5-6 p35-38 <br> - 10Ticks L6-5 p23-26 <br> -10Ticks L7-8 p15-22 [no Pack 8 L7_8 left for now - Ron] | - Calculate volume by counting cubes (E2) <br> - Use formulae to calculate volume of regular 3D shapes (E2) <br> - Evaluate volume of cuboids (E3) <br> - Use formulae to calculate volume of cylinders and compound cuboids (L1) |
| Apply measures to real life applications | - Home Learning booklet measures year 1 (pages 4 - 5,6,9,10,11,12,13) <br> - Home learning booklet Measures year 2 (pages 3-10) <br> - Home learning booklet Measures year 4 whole booklet <br> - Home learning booklet Measures year 5 (pages 2,4,7,9) <br> - Using a selection of objects, order them according to size and match their measures to them. <br> - 10 Ticks L4-3 p11-13 | - Describe weight using whole values on a scale - such as weight, length, temperature (E2) <br> - Select possible lengths, capacities and weights for common objects (E2) <br> - Use estimation to order the size of objects (E2) <br> - Read values from an appropriate positive scale - such as weight, length, temperature (E3) <br> - Read and compare temperatures including negative values (E3) |
| Progress Check | Reviewing progress activities - complete the appropriate ready for when we return and review the learning area in <br> 1. GCSE 1-2 \& Entry Level - Measures - complete assignme <br> 2. GCSE 3-5 \& Functional Skills <br> a) Measures <br> f) volum <br> b) Reading scales <br> g) conv <br> c) Perimeter and area <br> h) const <br> d) Circumference and area - grade 4 <br> i) scale <br> e) Area of compound shapes <br> j) vecto | asks below - mark and record score - gap analysis for topics (RAG) ubsequent years. <br> paper A - <br> sion graphs <br> uction and loci - grade 5 <br> rawings and bearings - grade 5 <br> - grade 5+ |

