** Mathematics Faculty**

 **Year 8 Autumn Term 2 – Theta Scheme**

 **Unit 3 Overview - Area and Volume**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Area and Volume** | I can calculate the area of parallelograms, triangles and trapezia. |  |  |  |
| I can calculate the area of compound shapes. |  |  |  |
| I can calculate the volume of cubes and cuboids. |  |  |  |
| I can recognise the nets of cubes and cuboids. |  |  |  |
| I can calculate the surface area of cubes and cuboids. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Calculating the area of parallelograms and triangles** (CM clips 44 & 49) | Formative assessment strategies e.g. MWBs, whole class questioning, Diagnostic Questions, SLOP time with self-assessment, Live Marking etc.Assessment is also supported with our use of ILOs, set through Century Learning and Corbettmaths.Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | area, parallelogram, triangle, base, height, unit, cm² |
| **2** | Calculating the area of trapezia (CM clip 48) | area, trapezium, trapezia, parallel, height, unit, cm² |
| **3** | Calculating the area of compound shapes (CM clip 41) | area, square, rectangle, length, width, parallelogram, triangle, base, height, trapezium, parallel, unit, cm² |
| **4** | **Calculating the volume of cubes and cuboids** (CM clip 355) | volume, capacity, cube, cuboid, length, width, depth, cm3 |
| **5** | Recognising the nets of cubes and cuboids (CM clip 4) | cube, cuboid, net, face, edge, vertex, vertices |
| **6** | Calculating the surface area of cubes and cuboids (CM clip 310) | surface area, face, square, rectangle, cube, cuboid, length, unit, cm² |