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| **Unit G2**  **Area, perimeter and volume** | | **Year 8 Road Map** | | | | |
| In this unit you will learn about Sequences  **S**: Support  **C**: Core  **E**: Extension | | | | | | |
| **S/N** | **Differentiation** | **Learning Goals/Outcomes/Content** | **Mathswatch Clip** | **R** | **A** | **G** |
| 1 | S | Identify the number of faces, edges and vertices of 3Ds (G1.1) | G12a |  |  |  |
| 2 | S | Know how to draw Nets of 3Ds and use it to work out the surface area of 3Ds (G2.5, G3.5) | G12c |  |  |  |
| 3 | S C | Draw 3Ds using isometric papers (G3.1,G5.2, G6.4) | G12b |  |  |  |
| 4 | S C E | Calculate area and perimeter of rectangles, parallelograms, triangles and trapeziums (G4.2, G5.1) | 53-56 |  |  |  |
| 5 | S C E | Calculate area of compound shapes made from rectangles, triangles, parallelograms and trapezia | G24 |  |  |  |
| 6 | C E | Calculate the area of area and circumference of circular objects (G5.1, G6.4) | G22  117 & 118 |  |  |  |
| 7 | S | Work out the volume of prisms by counting cubes (G4.2) | G21a  G25a |  |  |  |
| 8 | S C | Calculate the volume of cubes and cuboids (G4.2, G5.1) | 115 |  |  |  |
| 9 | C E | Calculate the volume of prisms using the area of the cross section (G5.1, G5.2, G6.4) | 119 |  |  |  |
| 10 | C E | Work out the total surface area of prisms by using appropriate nets and sum of faces or any other approach (G4.2, G5.1, G5.2, G6.4) | G21b  G25b |  |  |  |
| 11 | S C E | Solve variety of problems involving perimeter, area and volume (G5.2, FS6.6) | 169  172 |  |  |  |

Student’s comments or questions