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| **Topic/Skill** | **Definition/Tips** | **Example**  **Topic: Perimeter and Area** |
| 1. Perimeter | The **total distance** around the **outside** of a shape.  Units include: etc. | Image result for perimeter |
| 2. Area | The amount of **space** **inside** a shape.  Units include: | Image result for area |
| 3. Area of a Rectangle | **Length x Width** |  |
| 4. Area of a Parallelogram | **Base x Perpendicular Height**  Not the slant height. | Image result for area of parallelogram |
| 5. Area of a Triangle | **Base x Height ÷ 2** | Image result for area of triangle |
| 6. Area of a Kite | Split in to **two triangles** and use the method above. | Image result for area of kite |
| 7. Area of a Trapezium | “Half the sum of the parallel side, times the height between them. That is how you calculate the area of a trapezium” | Image result for area of trapezium |
| 8. Compound Shape | A shape made up of a **combination of other known shapes** put together. |  |

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| **Topic/Skill** | **Definition/Tips** | **Example**  **Topic: Volume** |
| 1. Volume | Volume is a measure of the amount of space inside a solid shape.  Units: etc. | Image result for math definition volume |
| 2. Volume of a Cube/Cuboid | You can also use the Volume of a Prism formula for a cube/cuboid. | Image result for volume cuboid |
| 3. Prism | A prism is a 3D shape whose **cross section is the same** throughout. | Image result for math definition prism |
| 4. Cross Section | The **cross section** is the **shape** that **continues** all the way **through the prism**. |  |
| 5. Volume of a Prism |  |  |
| 6. Volume of a Cylinder |  |  |
| 7. Volume of a Cone |  |  |
| 8. Volume of a Pyramid | where B = area of the base |  |
| 9. Volume of a Sphere | Look out for hemispheres – just halve the volume of a sphere. | Find the volume of a sphere with diameter 10cm. |
| 10. Frustums | A frustum is a solid (usually a cone or pyramid) with the **top removed**.  Find the volume of the whole shape, then take away the volume of the small cone/pyramid removed at the top. | **Topic: Geometry and Measures (H)** |

**Knowledge Organiser**