|  |  |  |
| --- | --- | --- |
| **Topic/Skill**  | **Definition/Tips** | **Example****Topic: Perimeter and Area**  |
| 1. Perimeter | The **total distance** around the **outside** of a shape.Units include: $mm, cm, m $etc. | Image result for perimeter  $P=8+5+8+5=26cm$ |
| 2. Area | The amount of **space** **inside** a shape.Units include: $mm^{2}, cm^{2}, m^{2}$ | Image result for area |
| 3. Area of a Rectangle | **Length x Width** |  $A=36cm^{2}$ |
| 4. Area of a Parallelogram | **Base x Perpendicular Height**Not the slant height. | Image result for area of parallelogram$A=21cm^{2}$ |
| 5. Area of a Triangle | **Base x Height ÷ 2** | Image result for area of triangle$A=24cm^{2}$ |
| 6. Area of a Kite | Split in to **two triangles** and use the method above. | Image result for area of kite $A=8.8m^{2}$ |
| 7. Area of a Trapezium | $$\frac{(a+b)}{2}×h$$“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 $A=55cm^{2}$ |
| 8. Compound Shape | A shape made up of a **combination of other known shapes** put together. |  |

|  |  |  |
| --- | --- | --- |
| **Topic/Skill**  | **Definition/Tips** | **Example****Topic: Volume**  |
| 1. Volume | Volume is a measure of the amount of space inside a solid shape.Units: $mm^{3}, cm^{3},m^{3}$ etc. | Image result for math definition volume |
| 2. Volume of a Cube/Cuboid | $$V=Length×Width×Height$$$$V=L×W×H$$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 | $$V= Area of Cross Section×Length$$$$V=A×L$$ |  |

**Knowledge Organiser**