


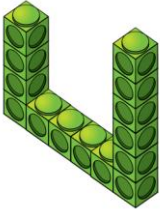
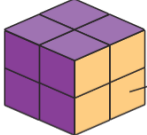
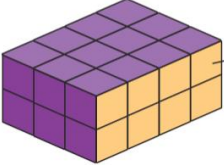


# St John Fisher RC Primary School

## Year 5 Maths Knowledge Organiser

### Summer Term Two: Measurement - Volume

Objectives	Teacher
I can recognise 3D shapes	
I can measure the volume of 3D shapes and record it as cubic centimetres (cm <sup>3</sup> )	
I estimate volume and capacity	

 <p><b>Volume = 8 cubes</b></p>  <p>Volume = 14 cubes Volume = 14 cm<sup>3</sup></p>	 <p>Area of cross section (face) = <math>2\text{cm} \times 2\text{cm} = 4\text{cm}^2</math> <math>4\text{cm}^2 \times 2\text{cm} = \text{Volume of } 8\text{cm}^3</math></p>  <p>Area of cross section (face) = <math>4\text{cm} \times 2\text{cm} = 8\text{cm}^2</math> <math>8\text{cm}^2 \times 3\text{cm} = \text{Volume of } 24\text{cm}^3</math></p>
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#### Key Vocabulary

<b>Volume</b>	the total amount of three-dimensional space that an object occupies
<b>Capacity</b>	the total amount of liquid (or other material) a container can hold when filled to its maximum capacity

#### Sentence Stems

<ul style="list-style-type: none"> <li>• The number of cubes needed to make the shape is _____</li> <li>• The volume of the shape is _____ cubic centimetres.</li> <li>• There are _____ cubes in each layer and there are _____ layers. There are _____ cubes altogether.</li> </ul>	<ul style="list-style-type: none"> <li>• I estimate that the volume of _____ is _____ cm<sup>3</sup></li> <li>• The actual volume of _____ is greater/less than the estimate.</li> </ul>
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#### Assessment (Self-Assessment)