# J6. Volume of irregular solid

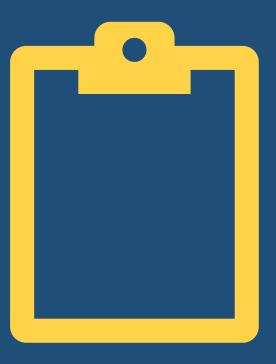
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## Outline of Teaching Experience Sharing (volume of irregular solid)

1. Teaching strategy

### 2. Activities to be organized

### 3. Reflection



# **Teaching Strategy**



Volume of irregular solid

Students' previous knowledge:

- Volume of cube = L×L×L
- Volume of cuboid= L×W×H

Through the displacement method, students are required <u>to measure and calculate the</u> volume of the water displaced <u>caused by the volume</u> <u>irregular solid</u>



# Activities to be organized

The essence of the measurement activity (displacement method)	Resources
<ul> <li>All rules must be stated before the start</li> <li>4-5 students in a group</li> <li>A group leader is assigned</li> <li>Students are required to bring a palm-sized object to measure.</li> </ul>	Irregular solids
<ul> <li>Roles of group members:</li> <li>1. Observe and mark the height of the water level with coloured scotch tape around the measurement vessel horizontally</li> <li>2. Safeguard the object to submerge in water (use plastic stir stick if necessary)</li> <li>3. Bring water from bucket to measurement vessel</li> <li>4. Record the data on their individual worksheet</li> <li>5. Make an oral presentation</li> </ul>	Coloured scotch tape, plastic stir stick, Displacement vessel with spout, Litre volume measurement cube, beaker, container with handle, bucket



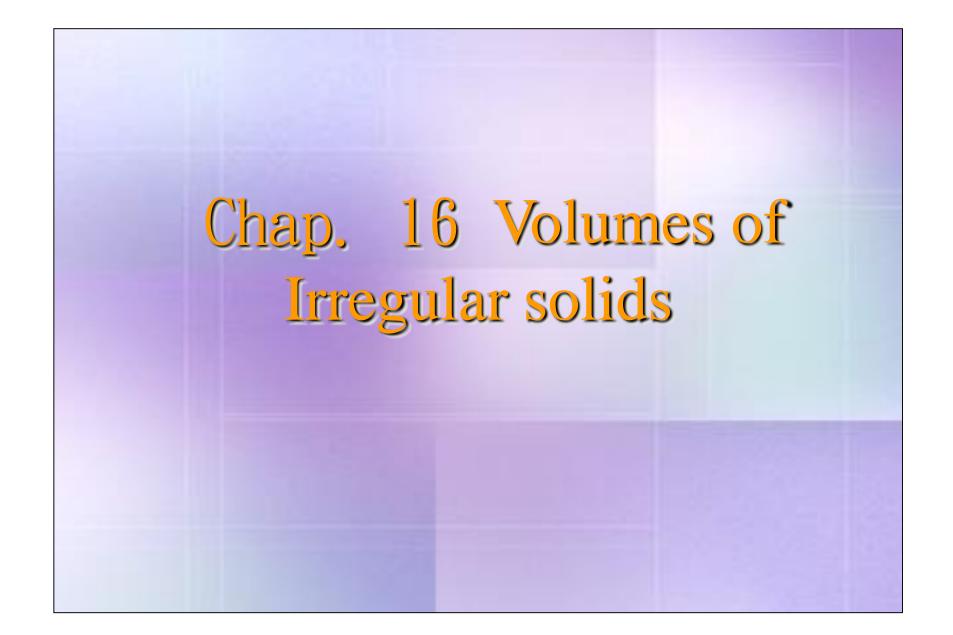
1. More engagement

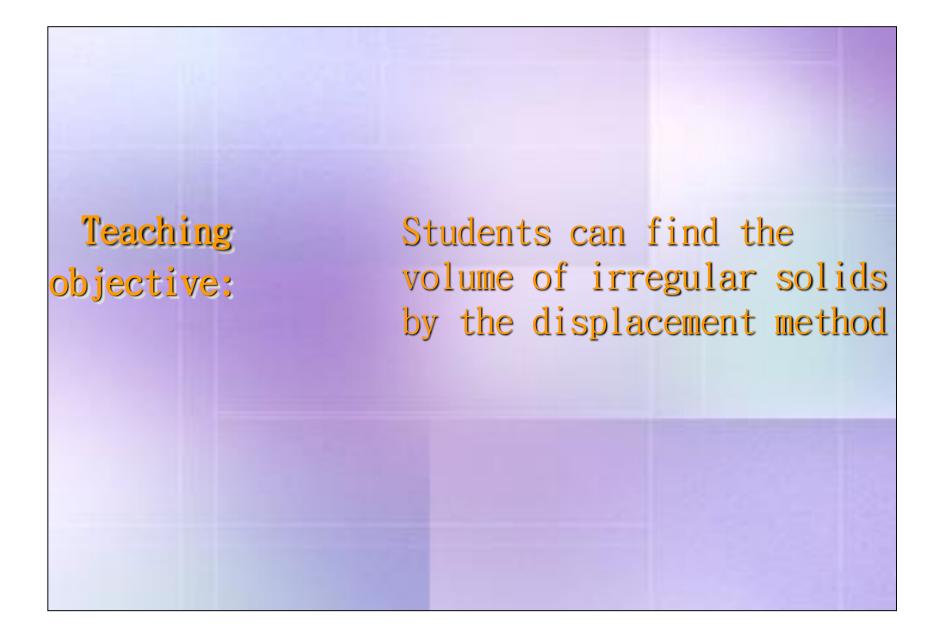
2. Formality vs Creativity



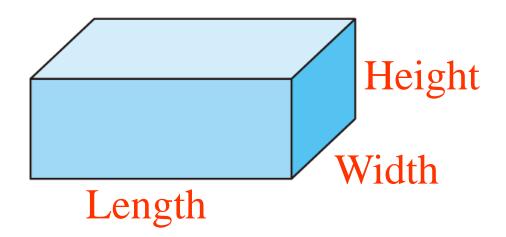
3. Feedback promptly

4. Chaos



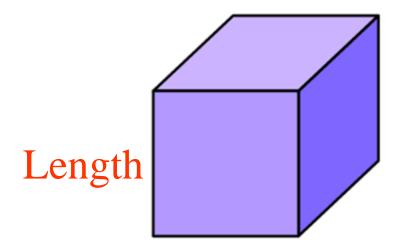


### Volume of a cuboid

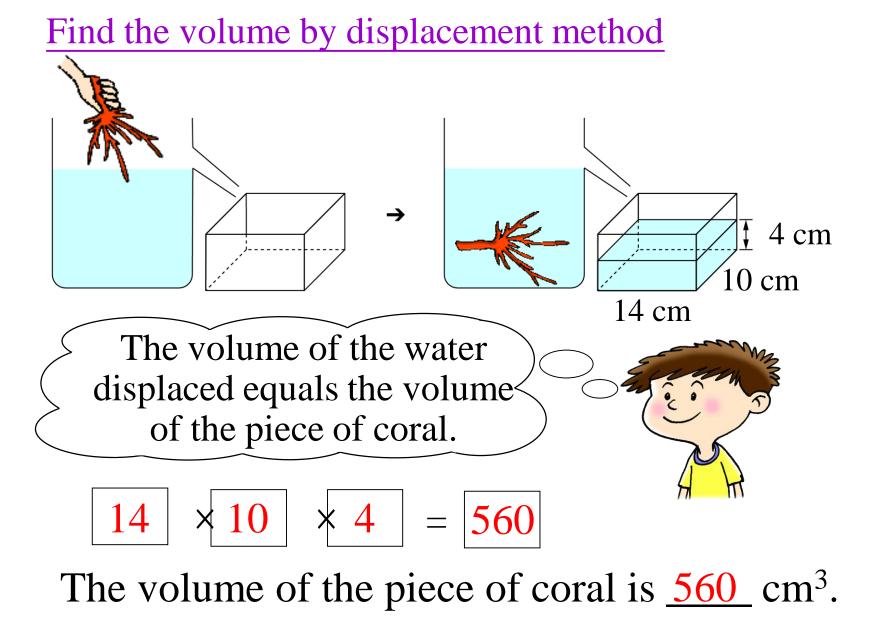


### Volume of a cuboid = Length × Width × Height

### Volume of a cube



### Volume of a cube = Length × Length × Length



### What do you see?



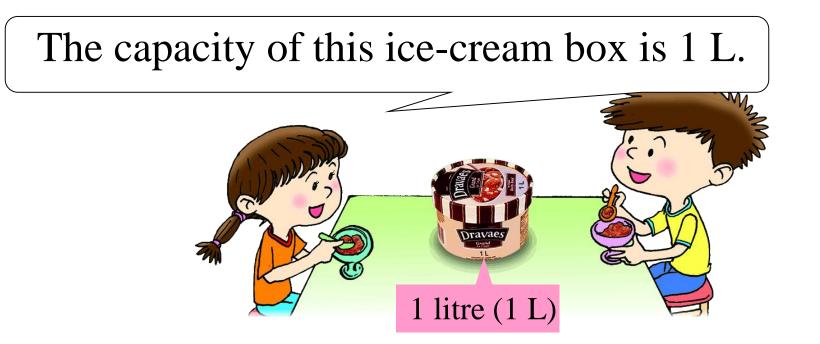
Volume

The space that an object takes up is called its volume.



Capacity

The amount that a container can hold is called its capacity..



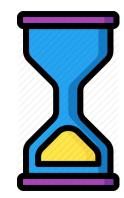


(0)

A 1-litre container can hold objects that have a total volume of 1000 cm<sup>3</sup>.

1 litre (L) = 1000 cubic centimetres ( $cm^3$ )

Group Activity



- Find the volume of objects by the displacement method
- Fastest & Accurate