# 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

## Heachino Ntmatery

## Volume of regular solid

Students' previous knowledge:

- Volume of cube $=L \times L \times L$
- Volume of cuboid $=\mathrm{L} \times \mathrm{W} \times \mathrm{H}$

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

## Activities to be organized

| The essence of the measurement activity (displacement | Resources |
| :--- | :--- |
| method) |  |
| - All rules must be stated before the start | Irregular solids |
| - $4-5$ students in a group |  |
| - A group leader is assigned |  |
| - Students are required to bring a palm-sized object to measure. |  |

- Roles of group members: 1 . Observe and mark the height of the water level with coloured scotch tape around the measurement vessel horizontally

2. Safeguard the object to submerge in water (use plastic stir stick if necessary)
3. Bring water from bucket to measurement vessel
4. Record the data on their individual worksheet
5. Make an oral presentation

Coloured scotch tape, plastic stir stick, Displacement vessel with spout, Litre volume measurement cube, beaker, container with handle, bucket

## Reflection

1. More engagement
2. Formality vs Creativity


3. Feedback promptly
4. Chaos

## Chap, 16 Volumes of Irregular solids

| Teaching |
| :--- |
| objective: | | Students can find the |
| :--- |
| volume of irregular solids |
| by the displacement method |

## Volume of a cuboid



Volume of a cuboid $=$ Length $\times$ Width $\times$ Height

Volume of a cube


Volume of a cube $=$ Length $\times$ Length $\times$ Length

Find the volume by displacement method


The volume of the water displaced equals the volume of the piece of coral.

$$
\begin{array}{|c|}
\hline 14 \\
10 \\
\times 4 \\
\hline
\end{array}
$$

The volume of the piece of coral is $\underline{560} \mathrm{~cm}^{3}$.

## What do you see?



## Volume

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

The volume of this box of ice-cream is $1000 \mathrm{~cm}^{3}$.


## Capacity <br> The amount that a container can hold is called its capacity..

The capacity of this ice-cream box is 1 L .


## Capacity

A 1-litre container can hold objects that have a total volume of $1000 \mathrm{~cm}^{3}$.

1 litre $(\mathrm{L})=1000$ cubic centimetres $\left(\mathrm{cm}^{3}\right)$
(1)

## Group Activity



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

