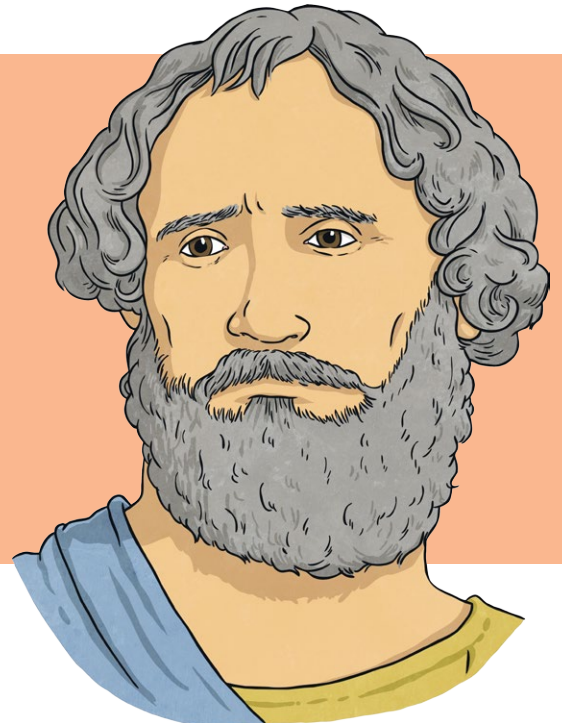


Archimedes Water Investigation

Put the Archimedes' principle to test with this water investigation.

You will need:

- A measuring jug
- Interlocking cubes or building bricks
- Coloured pencils
- Water



Method:

1. Pour 500ml of water into the measuring jug.
2. Fasten 20 bricks or cubes together and place them into the water. Record the water level in red on the diagram below. Add a label such as "water level with 20 cubes."
3. Remove the cubes and check that the water level returns to 500ml.
4. Make a different shape using the same number of cubes. How far does the water level rise this time?
5. Repeat the experiment with just 10 cubes. What do you notice? Record your results in green on the diagram on the next page and add a label such as "water level with 10 cubes."
6. Estimate how much the water level will rise if you use 25 and 30 cubes. Mark your estimates on the diagram below using different coloured pencils and adding labels.
7. Were your estimates correct? Mark on the actual water levels and label them for 25 and 30 cubes.

Results

