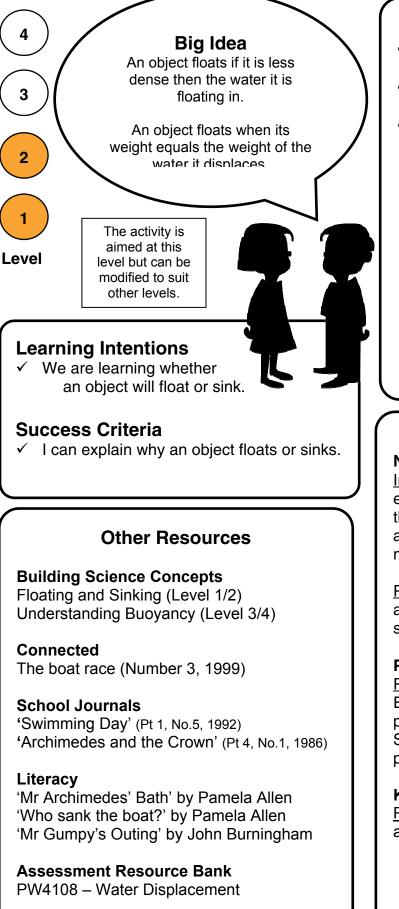




Floating and Sinking



What you need to know

- An object that is light for its size will float on water.
- A floating object usually lies on top of the water.
- When we put an object into water, it pushes water out of the way. (This is called displacement.)

Curriculum Links Nature of Science

<u>Investigating in science</u> - Extend their experiences and personal explanations of the natural world through exploration, play, asking questions and discussing simple models. (L1/2)

Participating and contributing - Explore and act on issues and questions that link their science learning to their daily living. (L1/2)

Physical World

Physical inquiry and physics concepts -Explore everyday examples of physical phenomena. (L1/2) Seek and describe simple patterns in physical phenomena. (L1/2)

Key Competencies <u>Relating to others</u> – Share ideas and listen actively to others.

What you need

- Collection of objects for each group (eg cork, toy car, paper clip, cloth, wood, metal, plastic lid, plant material, nail, tennis ball, pencil,)
- Large container of water (clear sides if possible)
- Recording chart class (Item, Prediction, Observation, What helped it float or sink)
- Recording chart group (Item, float/sink)

What to do

- 1. Read the story 'Who sank the boat?' Follow up questions -
 - What happened in the end?
 - Why didn't it happen earlier?
 - What does it mean when we say something floats?
 - What does it mean when we say something sinks?
- 2. Show the students the collection of objects and get them to predict which objects will float or sink and why. Record on the class chart
- 3. In groups children test out each object and record their results on group chart.
- 4. Feed back to rest of the class and teacher completes the class chart.
- 5. Discuss why they think the objects float or sink and record this on the chart.
- 6. Groups now sort the objects into 3 groups (float, sink, not sure).
- 7. Questions to ask -
 - What is the same about all the objects that float?
 - What else can float like these things?
 - What is the same about all the objects that sink?
 - What else can sink like these things?
 - What are our ideas about floating and sinking now?

What's Next?

- Blocks of wood different sizes and shapes
- Pieces of candle different lengths
- Sponge

Trv:

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