

Teacher Information Sheet: Buoyancy

Materials needed:

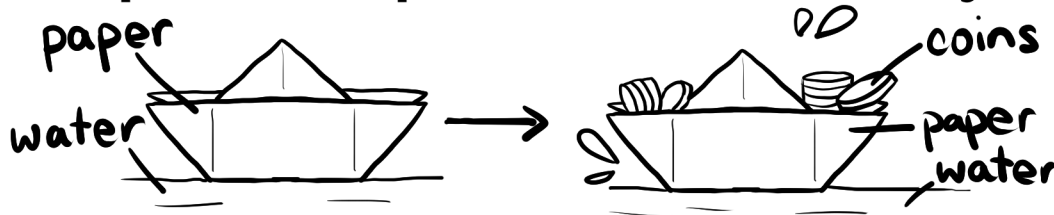
Magazine paper
Plastic tub/bucket/bath
Coins
Glue, tape and any other construction materials

Method:

1. Use the paper and materials to design a boat that can hold as much weight as possible
2. Place the boat in the water
3. Carefully place coins in the boat one at a time.
4. record how many coins fit in the boat
5. Repeat step 1 to 4 until you have the best design

Measuring and recording

Draw a picture of the experiment below at each of the stages:



Questions to answer:

How can the piece of paper carry a larger weight?

What happens when you use different paper?

What happens if you use tape or glue?

How many coins can your boat hold?

Learning outcomes/real world applications

When an object is placed in water, water is pushed out of the way.

As water is pushed away by an object, the water exerts a force back on the object that is equal to the object's weight, this is called Archimedes' principle.

This is what helps make an object float.

