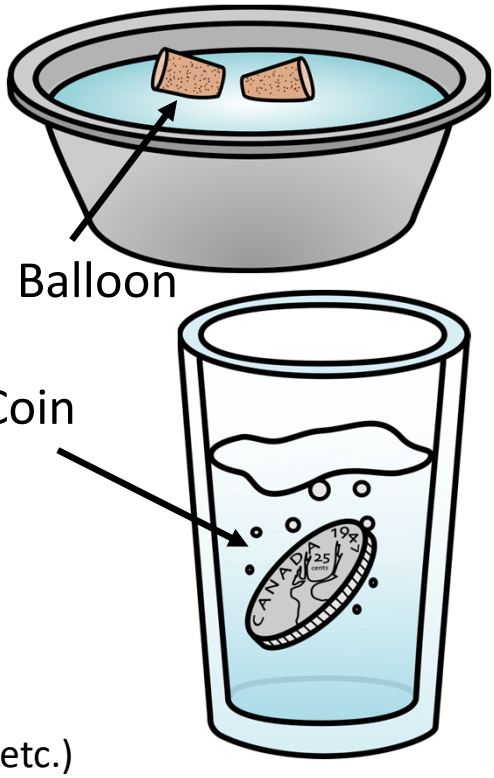
Hands On Solids Lab

Properties of Solids Investigation



What's needed:

- Various solid objects (such as a metal spoon, plastic toy, rubber ball, wooden block, etc.)
- Magnifying glasses
- Rulers
- Thermometers
- Water and a bowl
- Paper and pencil for recording observations

What to do:

- check out the various solids and describe their properties (e.g. color, shape, texture, size, weight, etc.)
- use the magnifying glass to observe any patterns, lines and shapes on the surface
- measure the different solids, which ones are easier/harder to measure
- take temperatures of the objects, are their differences?
- put some of the solids in the bowl of water – how do they interact with one another?

<u>Record, report and explain your findings:</u>

Teacher Notes:

Begin by asking students to describe what they know about solids. Ask them to name some examples of solids they see around them.

Introduce the concept of properties and explain that all solids have different properties that make them unique.

Show students the various solid objects and ask them to describe their properties (e.g. color, shape, texture, size, weight, etc.) using their senses.

Next, have students use magnifying glasses to examine the objects more closely. Ask them to look for any patterns, lines, or shapes on the surface of the objects.

Using rulers, have students measure the size and shape of the objects. They can also measure the temperature of the objects using a thermometer.

Provide a bowl of water and ask students to observe how the objects interact with the water. Do they float, sink, or stay in place? Do they absorb water or repel it?

Finally, ask students to record their observations on paper. They should write down what they noticed about each object and what properties they think are unique to each one.