

Rock and Boat Worksheet

Objectives

- To demonstrate understanding of Archimedes' principle.
- To answer an objective question based on understanding of volume, mass, density and weight.

Challenge Question

You have a large rock on a boat that is floating in a pond. You throw the rock overboard and it sinks to the bottom of the pond. Does the water level in the pond rise, drop or remain the same?

Definitions

volume

mass

density

buoyancy

pressure

weight

Relationship Questions

1. What is the relationship between volume, mass and density?

2. What is the relationship between mass and weight?

