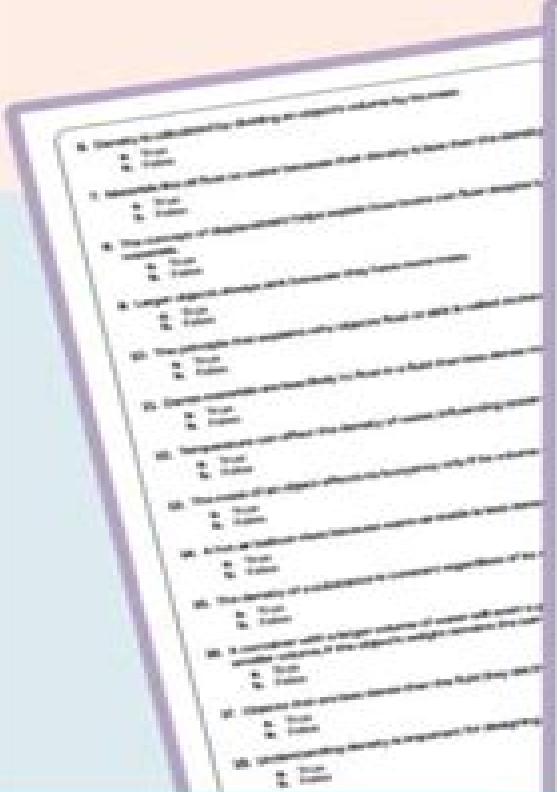


DENSITY AND BUOYANCY



Density and Buoyancy

True/False

Reading Passage

Read the passage carefully before answering the questions that follow.

Density is a measure of how much mass is contained within a substance. In comparison, buoyancy is an object's tendency to float or sink in a fluid. Buoyancy is often measured by comparing an object's density with that of the fluid it is in. Objects with a density less than that of the fluid will float, while objects with a density greater than that of the fluid will sink.

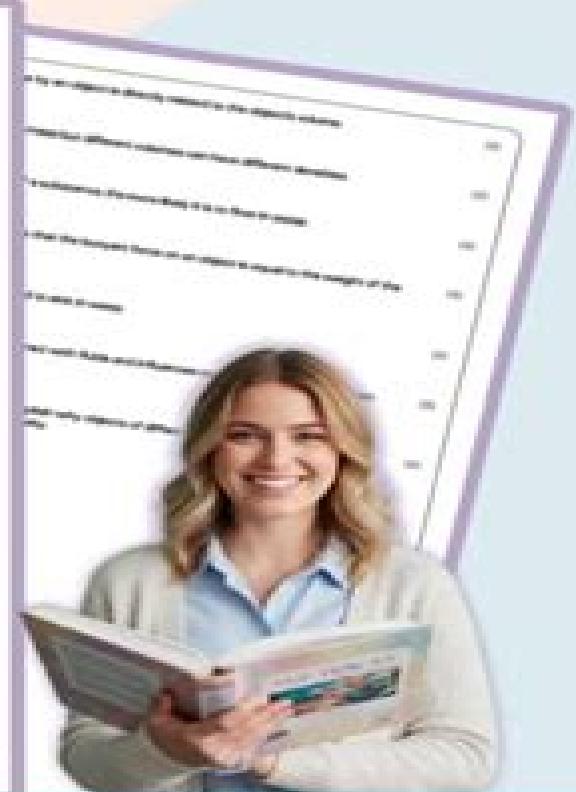
The buoyant force is proportional to an object's displacement in fluid. Density and the volume of fluid displaced are inversely proportional. This means that when an object displaces a large volume of fluid, it experiences a small force due to buoyancy. Conversely, if an object displaces a small volume of fluid, it experiences a large force due to buoyancy. However, for an object to float, the total weight of the object must be less than the total weight of the fluid it is displacing. This is called the law of flotation.

Hydrostatic pressure is also proportional to density. For instance, just below an ocean surface, there is less pressure than just below the surface. This allows aquatic life to live at greater depths without drowning. In most cases, differences in water density caused by temperature and salinity cause density variations between different layers of water. Understanding density variations is key to understanding ocean currents and climate patterns, including the role that density plays in the natural world.

True or False: Density and Buoyancy Concepts

True or False:

- An object with a higher density than water will sink when placed in water.
- A buoyant force is proportional to the volume of fluid it displaces.
- Hydrostatic pressure increases the deeper it is below the surface of water.
- One liter of water has a mass of one kilogram.
- Objects with less density than water will float.



NGSS ALIGNED - ANSWER KEYS INCLUDED

Answer Key Buoyancy

AN Whitehead

Answer Key Buoyancy:

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Motion, Forces Prentice-Hall Staff, 1994 Reviewed in The Textbook Letter 3 4 94 **Questions and Answers for Desk Officers** Haakon Norby, 1944 *Report Göteborgs universitet. Oceanografiska Institutionen*, 1980 The Year of the Gray

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