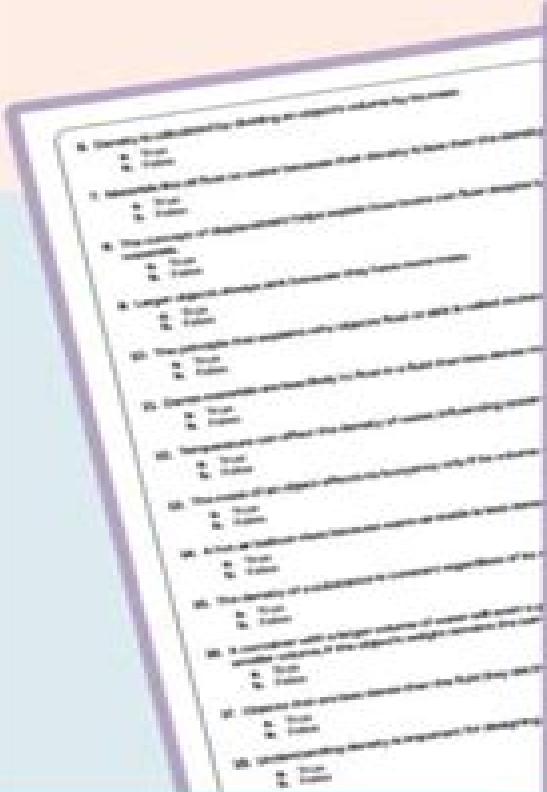


DENSITY AND BUOYANCY



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.

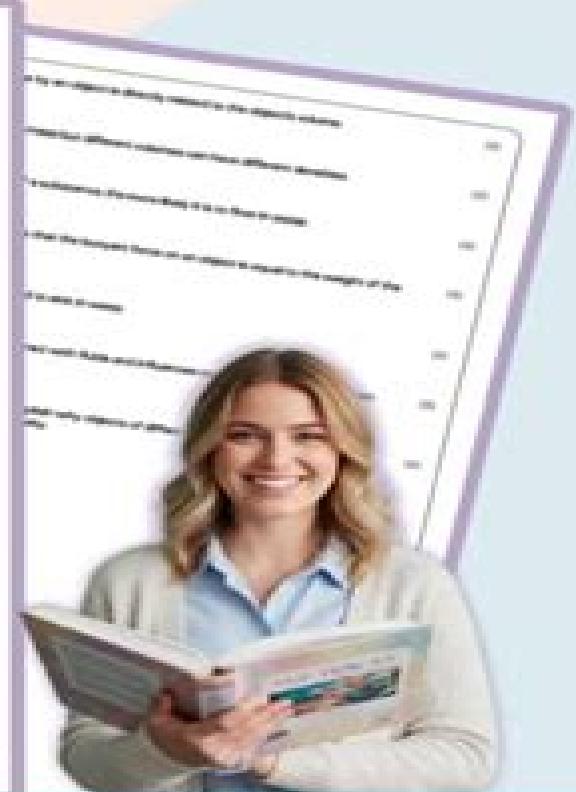
The buoyant force is proportional to an object's displacement in fluid. Density and the volume of fluid displaced are inversely proportional. This means that when an object displaces a large volume of fluid, it experiences a large buoyant force. Conversely, if an object displaces a small volume of fluid, it experiences a small buoyant force. In other words, the density of an object determines whether it will float or sink in a fluid. 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.

Hydrostatic pressure is also proportional to density. For instance, just below an ocean surface, there is less hydrostatic pressure than just below the surface. This is because the water above exerts more pressure on the water below, increasing the hydrostatic pressure. Conversely, as an object descends through a fluid, the hydrostatic pressure increases, which causes the object to experience an increasing amount of buoyant force. This is why objects with a density less than that of the fluid will float and objects with a density greater than that of the fluid will sink.

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 closer it is to the bottom of the ocean.
- 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

James A. Kolb

Answer Key Buoyancy:

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