



Density and Buoyancy

All objects experience a buoyant force when immersed in a fluid. As a basis for understanding this concept:

Students know density is mass per unit volume.



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All objects experience a buoyant force when immersed in a fluid. As a basis for understanding this concept:

Students know how to calculate the density of substances (regular and irregular solids and liquids) from measurements of mass and volume.



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All objects experience a buoyant force when immersed in a fluid. As a basis for understanding this concept:

Students know the buoyant force on an object in a fluid is an upward force equal to the weight of the fluid the object has displaced.



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All objects experience a buoyant force when immersed in a fluid. As a basis for understanding this concept:

Students know how to predict whether an object will float or sink.