

**Float or Sink – Buoyancy**  
**Note-taking Guide - Answer Key**

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*liquid, floats, displaced, greater, buoyant force, weighs, buoyancy*

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Tess wants to hide Sean's beach ball under water.

The ball bobs and floats because water pushes it upward with a force called buoyancy.

Whether an object sinks or floats in a liquid depends on buoyancy.

If you noticed carefully, when the objects were placed in water, they pushed out or displaced some water.

The displaced water weighs more than the boat-shaped foil.

This means the buoyant force is greater than the weight of the foil, and so the boat floats.

The beach ball too floats because the buoyant force pushing it upward is greater than its weight.