

How does sugar actually increase buoyancy in water?

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In [Chemistry](#)

Answer by [EthanM93](#)

Confidence votes 18

Basically, when sugar (or any other substance) dissolves in water, it increases the density of the water. Because the density is greater, the force of buoyancy is greater as well.

This occurs because when an object is put in water, the force of buoyancy is equal to the weight of the water that is displaced (Archimedes' Principle). More density means more weight, so even though the same amount of water is displaced, when there is a dissolved substance in the water, the weight of that displaced water is greater.

This creates a stronger force of buoyancy.