



GATEWAY REGION YMCA BUOYANCY

When submerged in water or a fluid, the fluid can create an upwards force on the object called buoyancy. Examples of this include anything that you've seen float in water and also is the reason that balloons float. This relationship is dependent on the density of both the object and the fluid. Let's see if we can manipulate the density of water in order to make objects float!

Supply List

- Water
- cup/Tupperware (preferably clear)
- Egg/Coke & diet coke
- Egg/Candles
- Salt (good amount)

Instructions

- Fill your large bucket with water
- Place in an egg
- The egg sinks
- To increase our water's density, let's add in the salt
- The egg now floats
- With coke cans
- Diet coke will float as normal coke sinks because it has a higher density
- We can again add salt in order to float both cans

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