



The EGGsperiment

This STEM activity will demonstrate the concept of density. If the egg is denser than the liquid it is placed into, it will sink. If it's not, it will float.

Materials Needed

- Hard boiled eggs: you'll need either three total or three for each child. It's a three-part experiment, so it all depends on how many hard boiled eggs you want for lunch.
- Water: lukewarm water works best to dissolve the salt.
- Vegetable oil: enough to fill a glass one-third to halfway with the oil.
- Kosher salt: about half a cup of salt per glass. We recommend Kosher salt because you can also use it for the next project. If you don't have kosher salt, you can use table salt or even sugar.
- Glasses: one glass per egg (so at least three glasses). Wide-bottomed glasses are less likely to get knocked over when you are using them.
- Spoons: to mix the salt into each glass of salt water.



Doing the EGGsperiment

- Once you have all the ingredients its time to get started!
- Glass #1 - Water: Fill the first glass with plain water.
- Glass #2 - Oil: Fill the second glass a quarter of the way with oil and the remainder with water.
- Glass #3 - Salt: Pour around half a cup of salt in the cup. Pour lukewarm water over the salt. Mix with a spoon until the salt dissolves.
- Make some predictions about which liquid(s) will make the eggs float and which will let the eggs sink.
- Drop one hardboiled egg into each glass and check out the results. Did you predict correctly? Do you think it's science – or magic?
- Talk about what you learned! Why can a person float more easily in the ocean than in a swimming pool? Find some photos or videos of the ocean, the Dead Sea and Great Salt Lake online and discuss their different properties.
- *Bonus: consider making one of our Nature Notebooks as a science notebook to record your predictions and observations. Instructions can be found at olympiawa.gov/virtual-programs.*

