

# Make an Egg Float

A fresh egg will sink in water. Is it possible to make it float? How and why?



## SCIENTISTS

*Always have an adult to help you with your egg-speriments. And it is always wise to wash your hands after handling eggs and your other scientific equipment.*



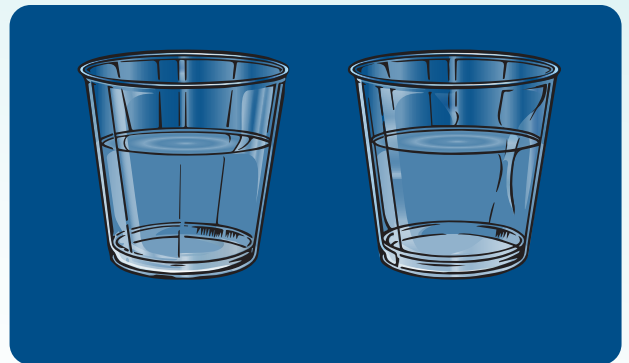
## EQUIPMENT CHECKLIST

- 2 glasses or beakers or plastic cups
- 2 raw eggs—fresh, with no cracks
- water
- salt—have at least 4 tablespoons ready to use
- teaspoon to measure and lower the eggs into the glass

## METHOD

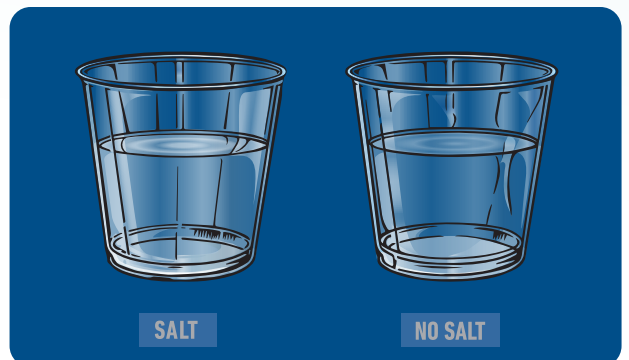
### STEP 1

Fill both the cups with water. Fill to the same level of water in each. Leave enough room in the glass of water to accommodate the egg.



### STEP 2

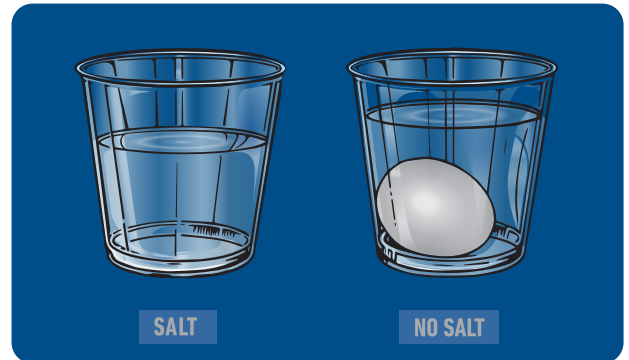
Add a teaspoon of salt to one of the glasses and stir well. Label them so you know which one is fresh water, and which one is salt water.



## Make an egg float continued

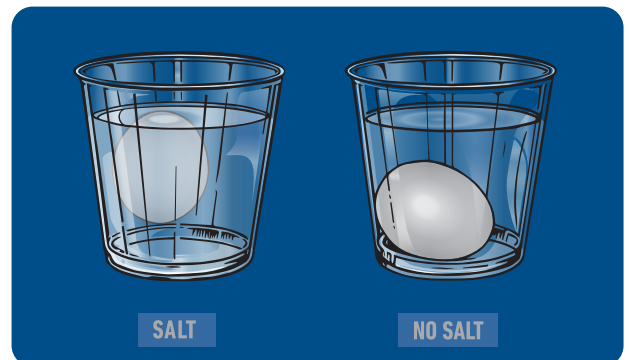
### STEP 3

Carefully lower an egg into the glass of fresh water using the spoon. Does it sink, or does it float?



### STEP 4

Carefully lower the other egg into the salted water using a spoon. Does it sink, or does it float? Do you need to add more salt? If the egg sinks as you lower it into the salted water, remove the egg and add more salt, a teaspoon at a time. Stir the water to dissolve the salt. See if you can float the egg.



## RESULTS AND CONCLUSIONS

What were your observations—did the egg sink in the fresh water? What about the salt water?

Floating and sinking are due to density. If something—in this case an egg—is more dense than the substance it is in, it will sink. So what does that mean for the salt water and the fresh water? Which is more dense than the egg?

**To think about:** What about the density of other things? What else might sink in the fresh water, but float in the salt water?