

# Water Density Experiment

## You will need:

Salt (table salt is fine)

Sugar

3 sets of clear (glass or plastic) bowls filled with tap water

Measuring spoons

3 eggs and other miscellaneous items in threes e.g. small plastic action figures

## Instructions:

1. Set out your sets of bowls and spoons filled with room temperature water. It may be worth trying warm water to encourage the salt and sugar to dissolve.
2. In one bowl of water, pour in about 1/3 of a cup of table salt. In another pour the same quantity of sugar. Leave the last bowl as simple tap water.
3. Test each item by placing it gently in the fresh water measurer. What happens?
4. Next, gently drop its counterpart into the salt water mixture. What happens?
5. Lastly, place the last of the objects into the sugar water mixture. What happens?
6. After testing all the objects, you can mix some food colouring with water and drop into each of the bowls to see where the colour settles.

## WHAT IS DENSITY?

You can show that two things of similar size can weigh different amounts and that is what causes things to sink or float. Things that have a higher density may sink and things with a lower density may float.

