



## Density

### BOX NOTICE

Name of the activity	Density
Activity duration	2 h
Material needed	Density box, cups (see-through), water, sugar, food colouring, egg, salt, spoons, measuring cup
Number of pupils involved (per box)	3-4

#### Step 1: Introduction

Start the activity by dividing the students into groups and giving each group a cup of water and an egg. Ask them what would happen if they dropped the egg into the glass.

After they have made their hypothesis, they should test it by dropping the egg. Naturally, they will see that the egg has sunk.

**Notice:** If an egg floats at this point, it means that it has gone bad and should be discarded.

#### Step 2: Make the egg float

Talk to the students about what happened and why. Ask them to try and think of a way that they could make the egg float (without building a ship). Read them the story “The Adventures of a Little Egg” to give them some ideas. If they have trouble, you can tell them that the key is in the salt and have them guess how it should be used.



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After they have made their suggestions, give each group salt and have them put it inside the cup and mix. Let them guess how much it would take to make the egg float. To make it more scientific, you can have them write down their guesses and also have them use a kitchen scale to measure the amount of salt that they are using. You can also predetermine the amount of salt that each group will use and then compare the results when dropping the egg in.

## Step 3: Use the storytelling resources

Use the storytelling resources and reenact the experiment to help the students better understand what just happened and make a complex concept like density easier for them to understand.

## Step 4: Stackable water (only for Sequence 2)

To go deeper into the subject and the chemical aspects of density, the students will do the Stackable water experiment.

After experimenting, talk to the students about what happened and why it worked (or didn't work). By adding sugar to the water, the water is becoming denser.

