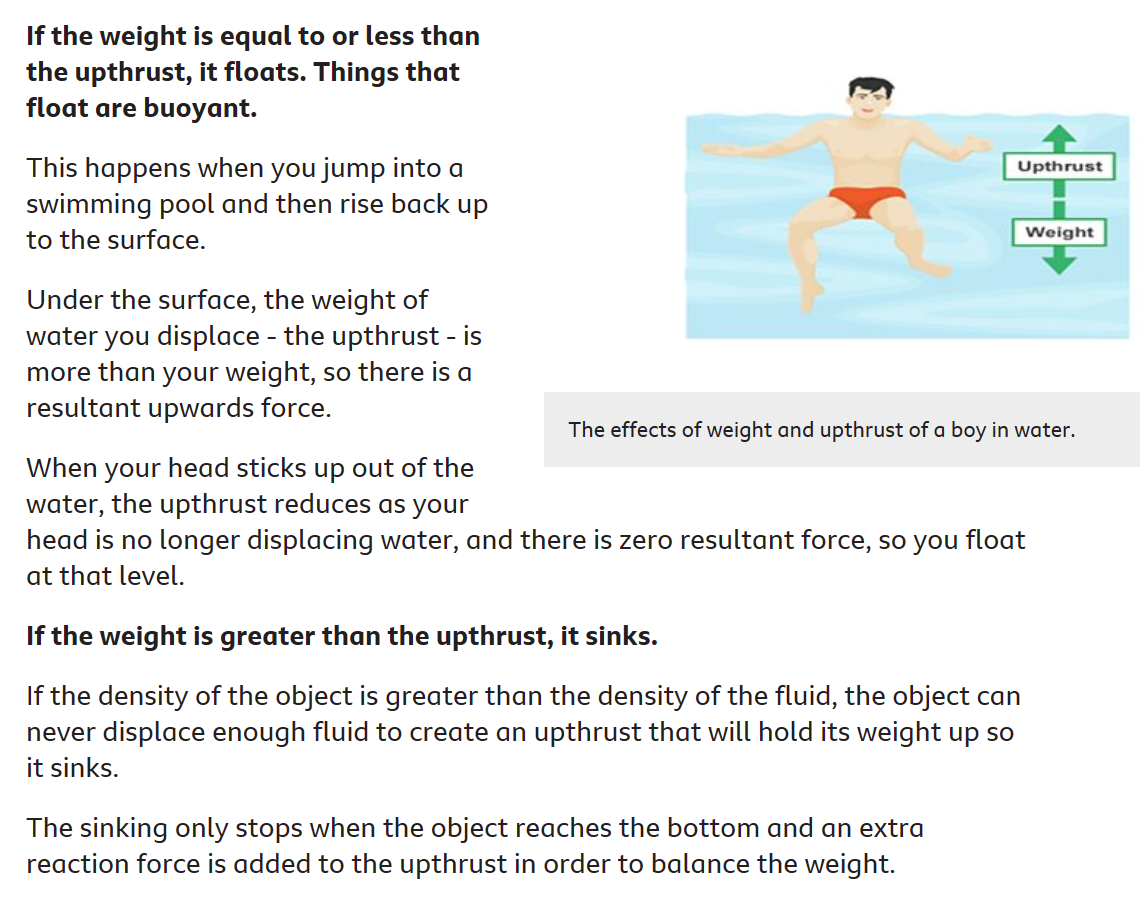
**Physics lesson 3 (Year 7)**

**Floating and sinking.**

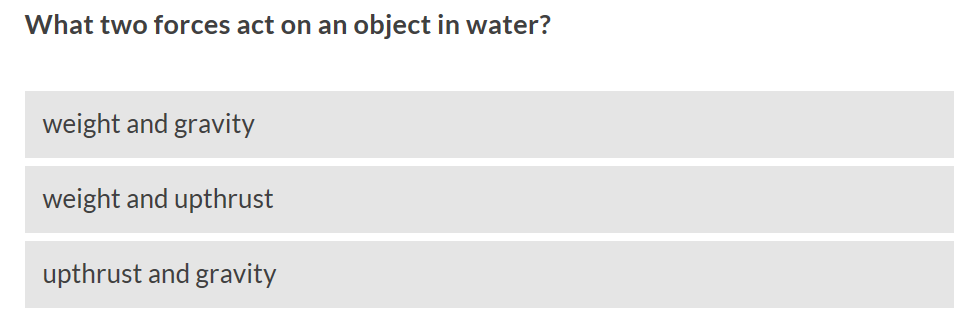
**https://www.bbc.co.uk/bitesize/articles/zbkkvwx**

**Learn**

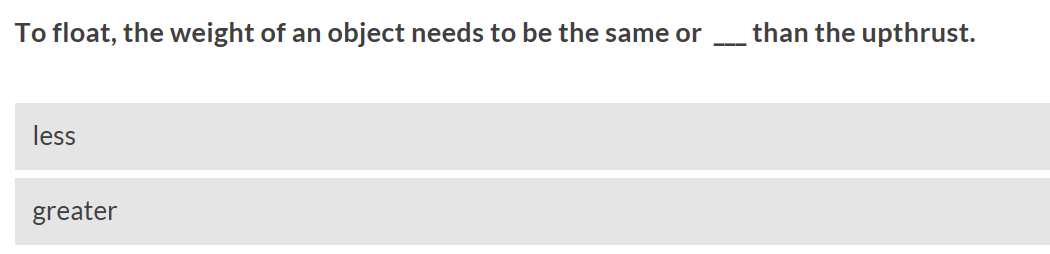
When something is in water, there are **two forces** acting on it. Its **weight** and the force of the water pushing up, the **upthrust**.

**Activity 1- Quick Quiz**

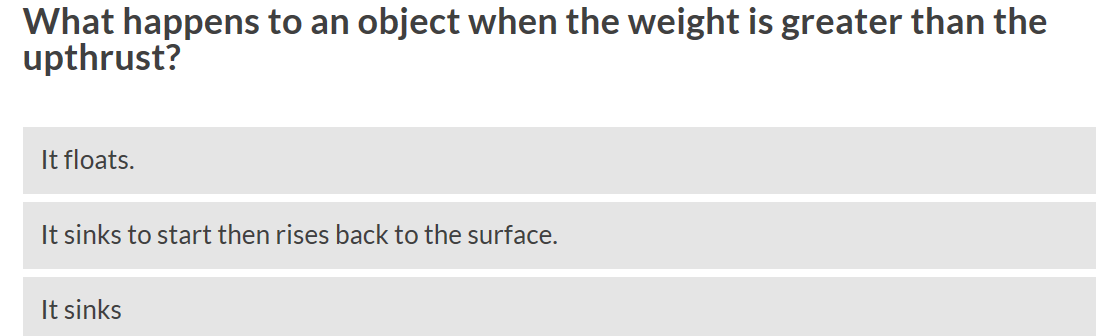
**Q1**



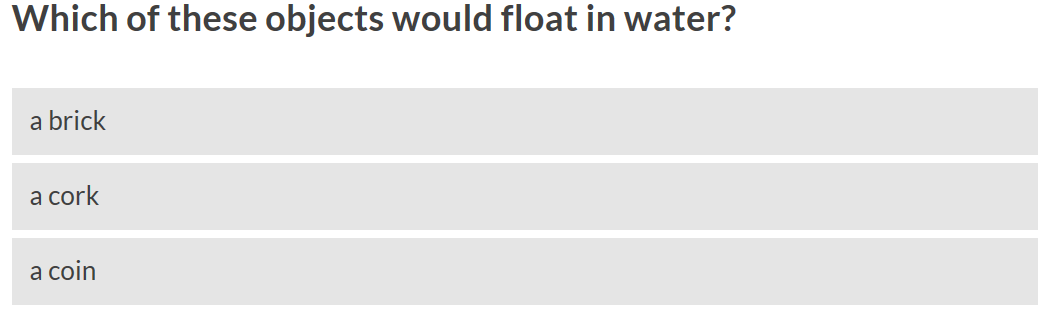
**Q2**



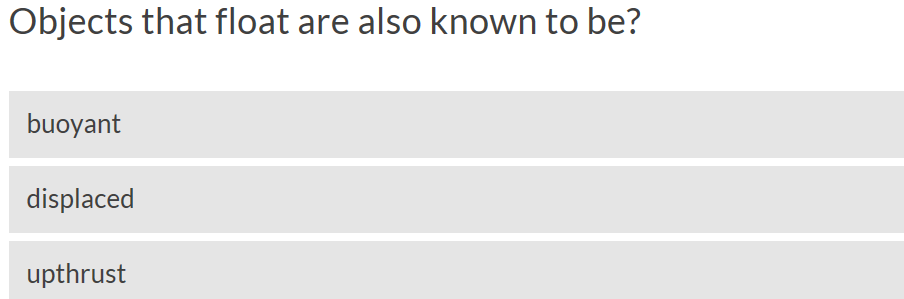
**Q3**



**Q4**



**Q5**



**Activity 2**

Carry out your own investigation to see which household objects float or sink.

You could use a bath, a sink, a bowl or a paddling pool to see whether the object floats or sinks!

**(Remember: don't put anything electrical in water!)**

Make a **prediction** whether you think the object will float or sink before testing it.

You could record your findings in a table. You may wish to use these headings **object, prediction, result**

**CHALLENGE: Can you explain to another member of your family, why an object floats or sinks? These key words might help: upthrust, weight, buoyancy, greater, less**

**Activity 3-** Read the information on the sheet titled “The Plimsoll line”, then answer all of the questions.