

# The Water Cycle

## Activity 1

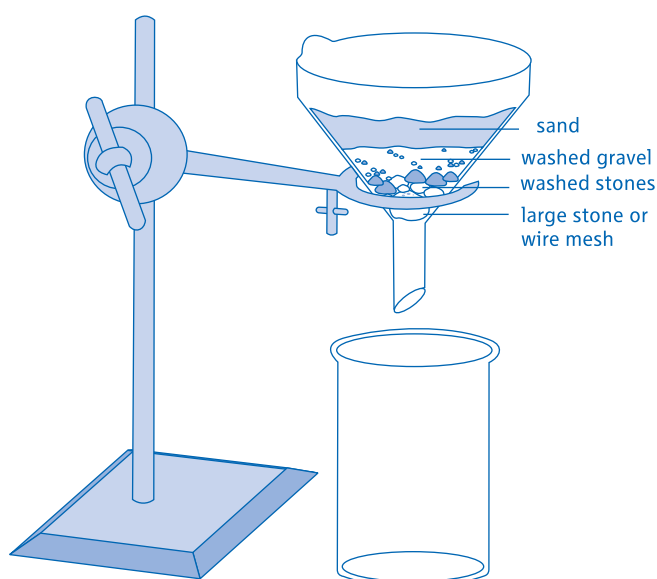
### Treating water

You will need:

- three identical samples of muddy water
- two funnels
- fine sand
- gravel
- small stones
- large stone or wire mesh
- alum crystals

One of the samples will be filtered, the second will be treated with chemicals and then filtered. The third sample is for you to compare with the other two.

1. Make two filters using the funnels (or cut off the top of a lemonade bottle).
2. Put a large stone or a piece of wire mesh in the bottom of each funnel.
3. Add a layer of small stones, one of gravel and, finally, a layer of fine sand. Remember to wash the sand, gravel and stones before you put them in.
4. Make up a solution of alum crystals in water.  
**(Wash your hands afterwards!)**



Now you are ready to begin

6. Wait for a few minutes.
7. Write down what you see happening to the water.
8. Now pour this treated water into one filter, and a sample of muddy water into the other one.
9. Wait until the water samples have filtered through.
10. Compare the filtered samples with each other and with muddy water.  
**(Don't drink any of the water!)**
11. What do your results tell you?

## Activity 2

### Another way to filter water

You will need:

- a of muddy water
- two bowls or dishes
- a strip of cloth



1. Make two filters using the funnels (or cut off the top of a lemonade bottle).
2. Put one end of your strip of cloth into the muddy water and let the other one hang down into the empty bowl.
3. Watch what happens.
4. Can you explain what you see?  
**(Don't drink any of the water!)**