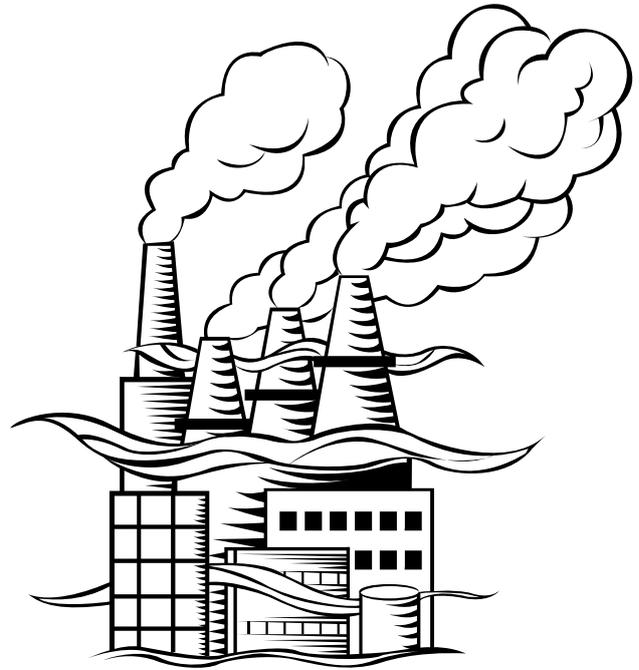


Water in the local area and why we need it?

Fresh water is essential for life and is one of our most basic needs. People and animals need to drink fresh water and plants need it to grow. Water is used in our homes and in agriculture as well as in industry.



Things to do...

Make a list of all the places where fresh water is found or used in your local area.

Water is found in...

Water is used in...

Climatic Zones

There are five main climatic zones on earth plus the mountainous regions. These are polar, temperate, arid, tropical and mediterranean.



Polar

very cold, ground always frozen



Mediterranean

hot in summer and mild in winter



Temperate

4 seasons, warm or cool weather



Arid - Desert

very dry, hot days and cold nights



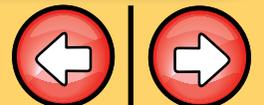
Mountainous

very cold and snowy



Tropical

hot, moist and heavy rainfall



Interactive Whiteboard Wall Charts

Water - Click on a title to begin.

The Water Cycle

Climatic zones

Precipitation

Uses of water

Moving water for people

Moving water for irrigation

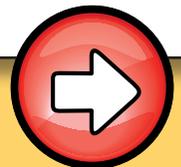
Water pollution

Cleaning our water



KEY

Contents	Text Off	Images Off	Next				
Quit	Text On	Images On	Previous				



Pollution damages beaches, making them dirty, dangerous and unpleasant to visit.

Pollution also destroys the eco-system making it impossible for the natural beach life to live there.





Sewage treatment.

When water has been used it has to be cleaned before we can allow it back into the lakes and rivers. This takes place at the sewage works.

The water goes through sedimentation tanks, then into aeration tanks and is finally filtered before it flows back into the water system.

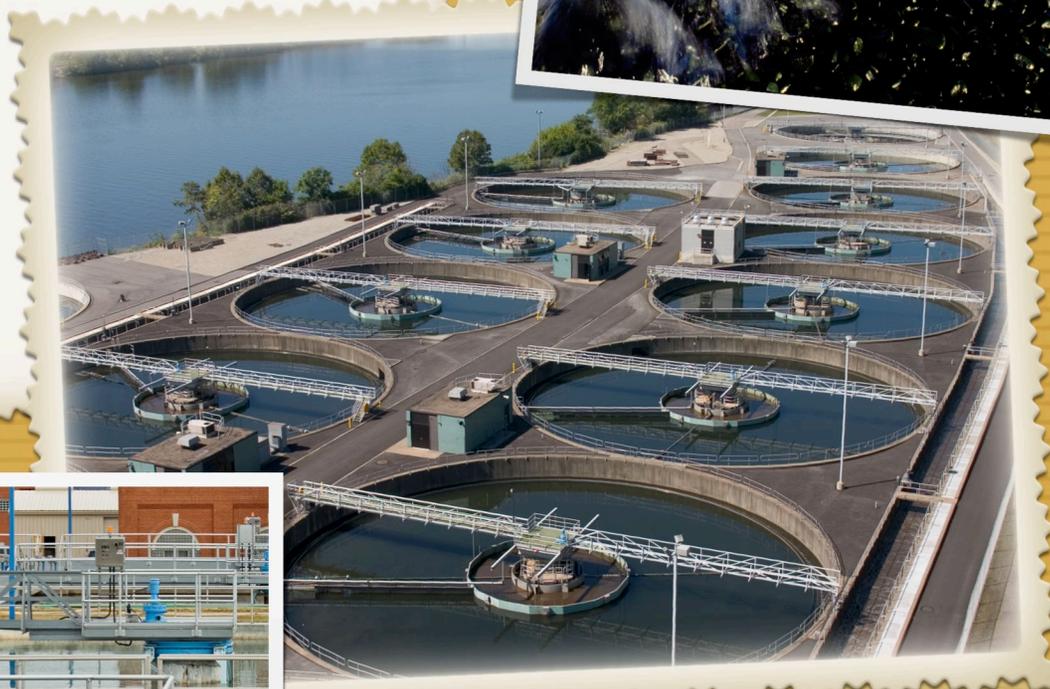


Water is used to wash cars. It takes about 32 litres of water to wash a car with buckets of water but takes around 400 litres of water to wash a car with a hosepipe!

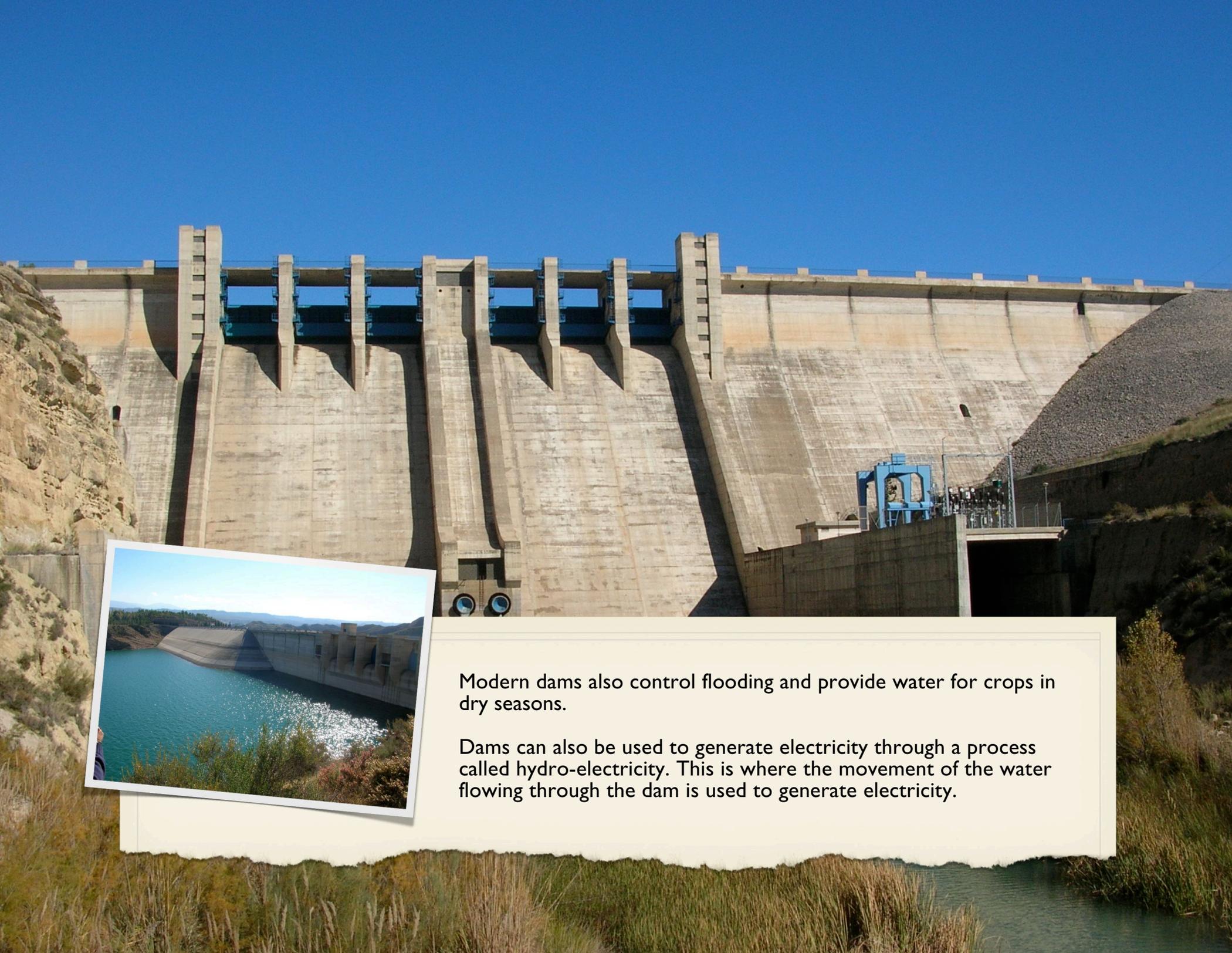
Next time you wash a car think first before picking up the hosepipe!

Water purification

When water comes from lakes and reservoirs it is not clean enough for us to drink and use. Because of this the water has to go to a water purification plant to be cleaned.



It goes through the stages of sedimentation, filtration and disinfection before it is pumped to towns and villages for use.



Modern dams also control flooding and provide water for crops in dry seasons.

Dams can also be used to generate electricity through a process called hydro-electricity. This is where the movement of the water flowing through the dam is used to generate electricity.

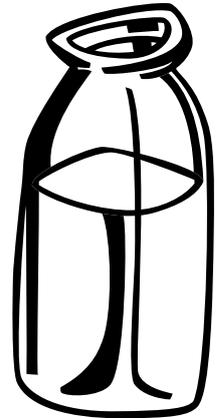
Is this water clean or dirty?

Collect 4 samples of water from the area around your school.

Remember - Do not taste the water during this project!

For each sample consider the following points and write down the answers in the box.

1. Does it look clear?
2. Does it smell clean?
3. Are there visible objects in the water?
4. How could it be cleaned?



Sample 1

This sample came from _____

Sample 2

This sample came from _____

Sample 3

This sample came from _____

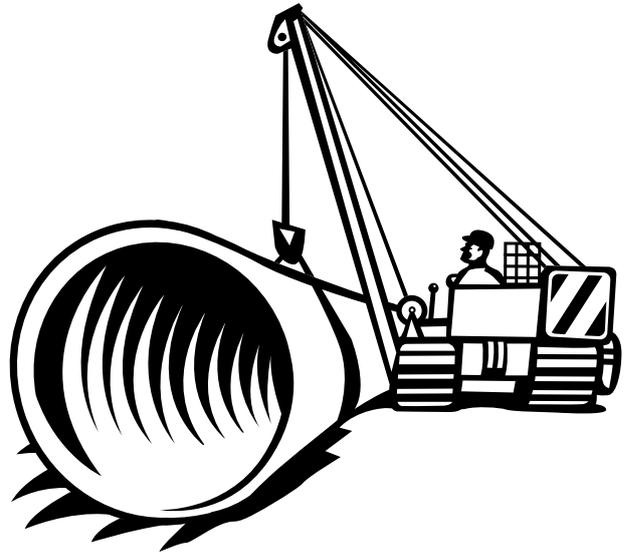
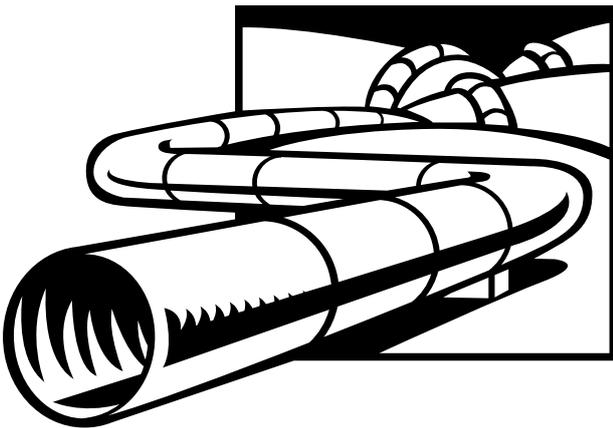
Sample 4

This sample came from _____

How we move water

Places where lots of water is actually found are often far away from where the water is needed. Therefore the water needs to be moved. We use massive amounts of water, some of it comes from rivers or reservoirs, and it is moved in canals, aqueducts or in overground or underground pipes.

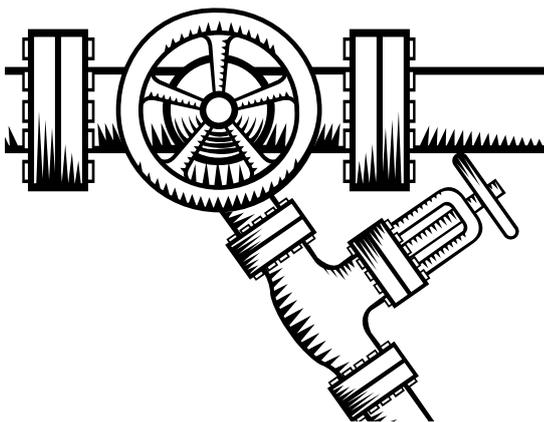
A river is where water runs down naturally from the hills or mountains and a canal, aqueduct or pipeline is a man-made waterway.



Water is very heavy as you will know if you have had to carry a large bottle of it! A litre of water weighs a kilogramme.

In Great Britain most people use about one hundred litres of water each day. We use canals, tunnels and pipes to move the water from where it is to where it is needed.

In many towns water is stored in a water tower which is often built on a hill so that the water can easily run down the pipes to the homes, offices, farms and other places where it is needed. In less fortunate countries water has to be carried to where it is needed from a water pump or well. In these places people use much less water.



Things to do...

On a separate sheet of paper make a plan of how fresh water is moved around your house. Think about how it comes from the mains, how it is used in the home and how it drains away.

Label the water cycle

Look in the library, in the water photo book or on the Internet at a diagram of the water cycle.

Label the picture below or draw your own diagram of the water cycle.

