Cleaning wastewater



When you flush the toilet or pull a plug out, the water disappears. Do you know where it goes?

Every day Anglian Water collects more than 960 million litres of wastewater from around 5.5 million customers.

How we treat wastewater

Once you flush the toilet or let water go down the plughole, it enters a network of pipes and pumps which leads to a wastewater treatment works. This is also called a sewage treatment works. Here it is treated before it is returned to our rivers and seas. In some areas, houses which are not connected to the sewers have septic tanks for their wastewater. The tank is buried underground and has to be emptied by special lorries.



One of our 1,106 wastewater treatment works

Why do we treat wastewater?

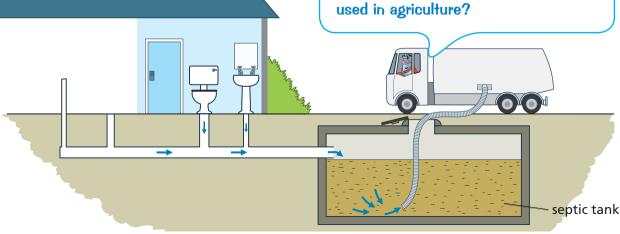
We need to remove some of the ingredients in wastewater that might harm the environment by polluting the rivers and the sea.

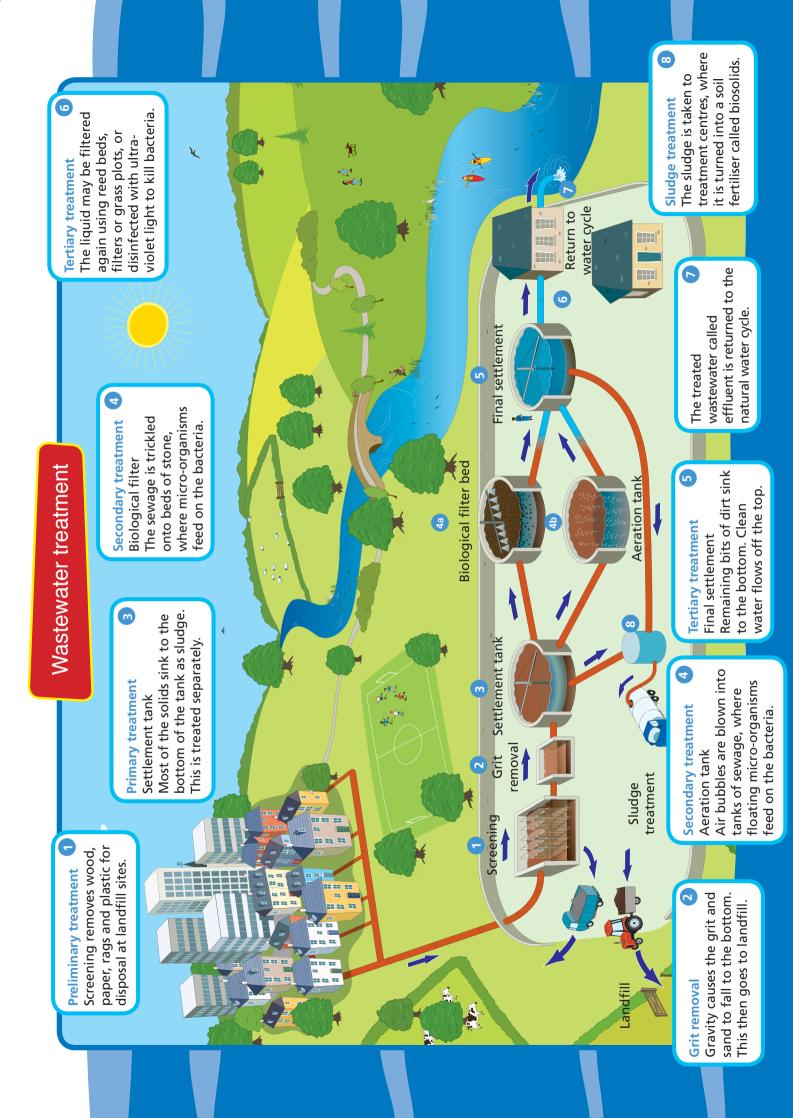


How do we do it?

The wastewater treatment process is done in four main stages. Follow the diagram overleaf to find out more.

Did you know that when we treat wastewater we create a soil conditioner called biosolids, which is used in agriculture?





Recycling water



See if you can create your own filter to turn muddy water back into clean water again. You can use different materials to see how good they are at filtering the water.

▲ Safety warning

You may need to ask for the permission or the help of an adult to cut the plastic bottle up.

What to do

- Cut the bottom off the plastic bottle.
- Push cotton wool into the neck of the bottle. Make sure it is in tightly.
- 3 Rinse the stones and gravel that you will be using until they are clean.
- 4 Add stones so that they fill a quarter of the bottle.
- 5 Add gravel so that the bottle is half full.
- 6 Add sand almost to the top.
- 7 Rest the bottle on the clear container.
- Mix some soil with some clean water in a jug to make dirty water and carefully pour it into the bottle.

Learning objective:

To find out how to separate solutions using filtration.



You will need:

- Soil/water mixture
- Cotton wool
- A jug
- Sand
- Beakers
- Gravel
- A large clear plastic bottle
- Scissors
- Stones
- Filter paper (optional)

