

Human

Pollution happens when the environment is contaminated, or dirtied, by waste, chemicals, and other harmful substances. There are three main forms of pollution: air, water, and land. A major pollution problem that affects rivers and oceans is plastic that is discarded by humans. At present, many people are trying to reduce the amount of single-use plastic used in our everyday lives.

Local Area Virtual links

- River Exe being contaminated with microplastics
- University of Plymouth part of huge project to prevent plastic entering the English Channel
- Look at local rivers to compare and contrast to others, e.g. Plym and Dart



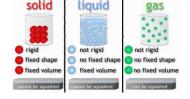
Why is the Water Cycle important? What local rivers do I know? Which animals use rivers are their habitat? How can we limit the use of plastic?

Physical

Most rivers begin life as a tiny stream on high land such as mountains or hills. They are fed by melting snow and ice, or by rainwater running off the land. The **water** follows cracks and folds in the land as it flows downhill. Small streams meet and join together, growing larger and larger until the flow can be called a river. We can follow the course of a river on a map.

Science link

Solids, **liquids** and **gases** are the three states of matter.



Some materials change state when they are heated or cooled. For example, water is a liquid, but when it is heated it changes to steam which is a gas. When it is cooled it forms ice which is a solid.



The **water cycle** is the process by which **water** is continuously transferred between the surface of the earth and the atmosphere.

The **habitat** of an animal or plant is the natural environment in which it normally lives or grows. In a habitat, the animals and plants are dependent on each other. The term **food chain** describes the order in which organisms, or living things, depend on each other for **food**. Most **food chains** start with organisms that make their own **food**, such as plants.



Source – the start of a river is its source. This could be a spring on a hillside, a lake, a bog or marsh. A river may have more than one source.

Tributary – a smaller river that joins a big river. **Meander** – a river that follows a winding course.

Valley – a low area of land between hills or mountains, typically with a river or stream flowing through it.
Stream – a small river.

Mouth – the end of a river where it flows into the sea.
Estuary – where a river reaches the ocean and the river and ocean mix. Estuaries are normally flat and wide.
Delta – a wide muddy or sandy area where some rivers meet the sea. The river slows down and drops the sediment it was carrying.

Pollution – when gases, smoke and chemicals are introduced into the environment, making it harmful for humans, animals and plants.

Erosion – a fast flowing river can damage the riverbanks and wash bits of them downstream, making the river wider.

Evaporation – when a liquid becomes a gas gradually. **Condensation** – when water vapour (gas) turns into a liquid.



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