Lesson 2: Floods!



Fill in the gaps to explain the water cycle. Use the word bank.

aquifers	clouds	condenses	evaporation
precipitation	precipitation	runs-off	water vapour

	falls from the sky, onto the land and seas. Most of the surface	
water	into bodies of water or under	ground
As the sun warms the eart	n, some water turns to	through the process of
	As this rises into the colder ai	r, it
forming	As the clouds travel higher,	, they can hold less water. They
therefore release some of t	their water as	

Part two: climate change and floods



Earlier this year, the UK suffered several floods which came about because of extreme storms. This video shows some of the effects of Storm Dennis: https://www.youtube.com/watch?v=gzkYGKZC4w0



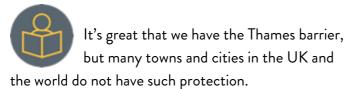


Why are these extreme weather events becoming more frequent?

- Climate change (or global warming), is the process of our planet heating up.
- Scientists estimate that since the Industrial Revolution, human activity has • caused the **Earth** to warm by approximately **1°C**. While that might not sound like much, it is enough to have a significant impact on weather and wildlife across the planet.
- Unfortunately, rising temperatures don't just mean that we'll get nicer weather. The changing climate will actually make our weather more *extreme* and *unpredictable*.

In London, we are protected from flooding by the Thames barrier. The largest flood barrier in the world is the Oosterschelde barrier in the Netherlands. The Netherlands is particularly vulnerable to flooding because it is a very low-lying, flat land. In fact, large parts of the country used to be in the sea. The literal translation of Nether lands is lower lands. You can see more about this barrier here: https://www.youtube.com/watch?v=cVdRMRumnss

Part three: how can we help?





We therefore need to think about how we can make

floods less likely and if they do happen, how we can limit the damage they cause.

What actions can you think of?

Think about the following questions (and remember your Geography learning):

- Where should we build our houses, our towns and our cities?
- How can we make our gardens and our countryside flood-friendly?

Use these websites to help with your research:

- <u>https://www.bbc.co.uk/news/uk-25929644</u>
- <u>https://eschooltoday.com/natural-disasters/floods/flood-prevention-methods.html</u>
- <u>https://www.researchify.co.uk/</u>



How can we make floods less likely?	How can we protect ourselves?	
How can we tackle climate change?	How can we limit the damage from floods?	