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WEEK
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What is climate?

The word climate means the **long-term weather patterns** for a particular area.

On Earth we have different climates depending on where you are.

Can you think of any different climates?



What is climate change?



Climate change is the process of our planet heating up.

Our planet has warmed by an average of **1°C** in the last 100 years.

This is already having huge impacts across the planet for people and wildlife.



Why is it happening?

The Earth's climate is getting warmer because of human activity.

We a burn **fossils fuels** like coal, oil and natural gas for energy, to generate electricity, to power our cars and to use for heating and cooking.

We also cut down trees across our planet to make space for things like farming and expanding cities.



What can we do?

What can we do at home or at school to try and **tackle climate change?**


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The climate emergency is the biggest challenge facing our planet and our profession.
To have significant impact, architects need to design sustainable buildings.

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Your challenge:

- This week, you are all going to be architects.
- You will need to create your own green roof topped building from recycled materials and cress seeds.
- You will work in groups of 3/4 in mixed year groups to design and construct your building.



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What can you use?

Plastic bottles,
Yogurt pots,
Milk bottle lids,
Plastic trays
Coloured paper or card
Scissors
Sticky tape or glue stick
Cress seeds
Cotton wool - balls or pads




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There are links between the warming of our planet and more extreme flooding across the world. Rain is more likely.

Climate change is also causing sea levels to rise. This is because mountain glaciers and polar ice are melting in these higher temperatures.

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South Somerset Science Challenge

Your challenge is not just to design and construct an eco home.

On Thursday afternoon, your design will be put to the test to see if it can withstand the effects of flooding.



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What will we do?

Challenge 1: We will pour 50g salt (rain) over the top of the house from 1m from the ground to test protectiveness.



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What will we do?

Challenge 2: We will place a tray of crest seeds on its roof.
We will also place an additional 3, 500g weights, 1 at a time, to test strength



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What will we do?

Challenge 3: We will pour 100 ml of water into the washing up bowl that your house is in to see how much water goes inside.



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South Somerset Science Challenge

For each challenge, you receive a score.

The team from KS1 and KS2 with the winning score will challenge teams from other schools on Friday!



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