Beacon Curriculum Science
"Let your light shine." Matthew 5:16
Billinge St. Aidan's CE Primary School

Reduce Reuse Recycle

How we can help:

1. **Recycle** as much rubbish as possible so factories don't have to use coal and oil to make new products.
2. Buy products with **recyclable** packaging.
3. **Switch off** lights and electrical appliances when not in use.
4. Walk, cycle or car share.
5. Use **renewable energy** sources for power if possible.
6. Plants and trees use carbon dioxide to make food so **planting** more helps reduce the amount in the atmosphere.
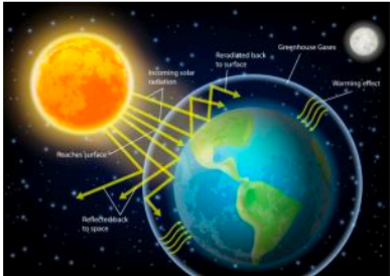7. **Eat less meat** so less animals are farmed.

Greenhouse gases

Some human activities produce **greenhouse gases** (**carbon dioxide, methane, nitric oxide**):

- Cutting down trees means more carbon dioxide stays in the air.
- Farming animals produces methane gas.
- Transport – fuels such as diesel and petrol produce carbon dioxide.

Scientists look at **trends** in weather data to track how the Earth's climate is changing.

Climate Change/Global Warming

Greenhouse gases trap the heat from the sun and stop it leaving the Earth, causing the planet to become warmer.

A warmer planet means the ice will melt.
Some animals will lose their habitat
Water levels will rise, causing some land to disappear under water.

Energy Sources

Renewable	Non-renewable
• Wind farms	Oil
• Solar farms	Coal
• Hydro power stations	Gas
	(Fossil fuels)

Key Vocabulary

weather	the condition outside at a particular time and place
global warming	the process that causes the earth to become hotter
recycle	the process of taking waste and turning them into something new
biodegrade	to naturally break down
net zero	how much greenhouse gas is added to the environment and what is taken away
greenhouse gases	gases in Earth's atmosphere that trap heat
industrial revolution	a period of major change in the way products are made
combustion	another name for burning
COP	conference of parties
conference	an organised meeting of people with common interests
species	a group of living things categorized together because of similarities in features
habitat	the home of an animal or plant

To know statements ✓✗

I know about climate change.	
I know ways to reduce how much rubbish is sent to landfill.	
I know ways to reduce energy consumption.	
I know what happens when fuels are burnt.	
I know about the outcomes of COP26	
I know how to compare data associated with the weather.	

What can you remember from previous units?

What do you know about the human impact on the environment through deforestation?
What do you know about air and water pollution?
Can you explain how humans can have a positive impact on nature?

Anything else you have learnt? What have you enjoyed?