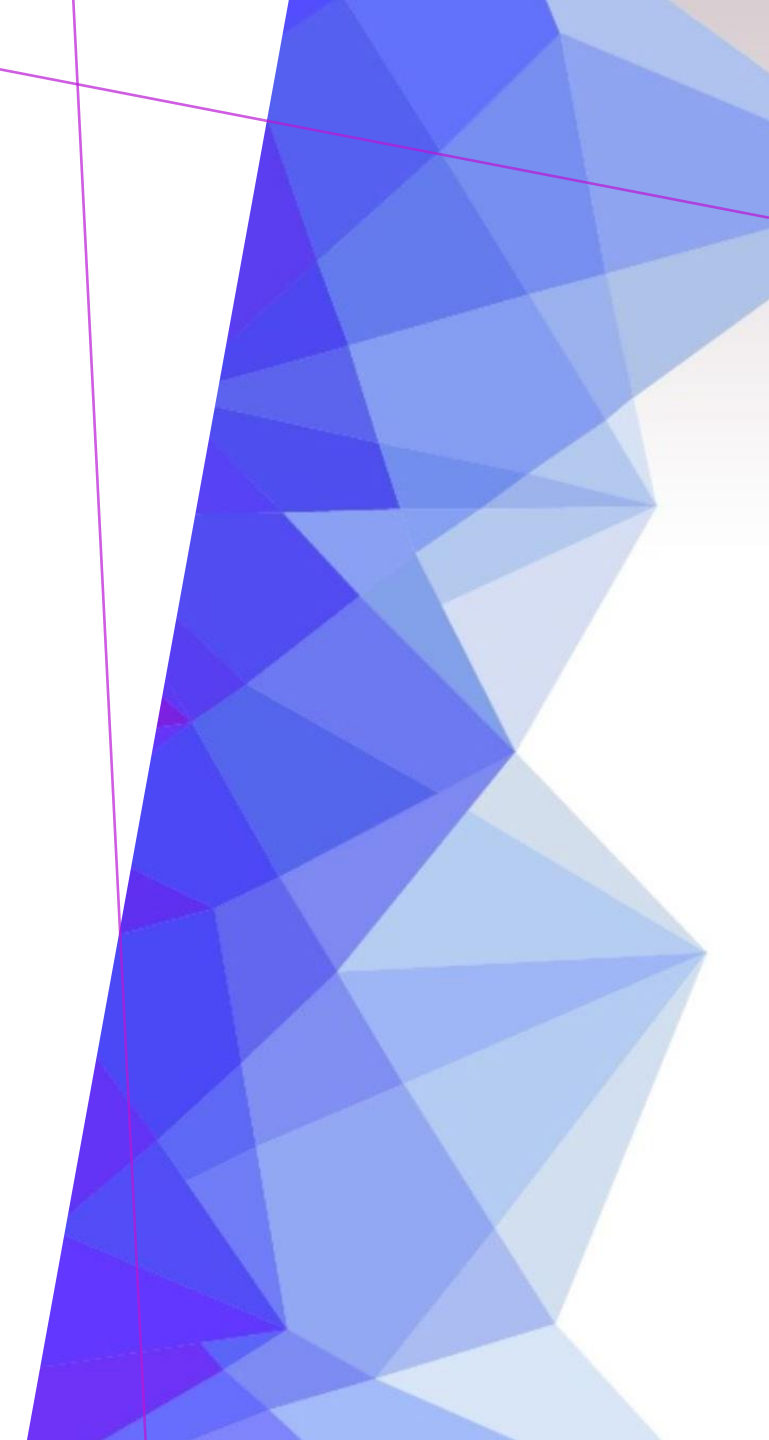


LYNHER SUMMER 2 2023

Why is climate change such an important topic?

GEOGRAPHY



WHAT DO WE MEAN BY CLIMATE CHANGE?

Our world has been getting hotter due to things humans are doing, like burning huge amounts of fossil fuels, cutting down too many trees and over-farming crops and animals.

We had our own ideas and questions about climate change.

These changes have always happened, but the industrial revolution sped it up.

Before we start the new learning, think of a few points you either know about climate change or some questions you may have about climate change?

Climate change examples is iceberg melting, falling into water – rising sea levels. Flooding.

How and when did it start? Can we stop it? What would the world be like without climate change? Did it start after the industrial revolutions?

It can put animals in danger.

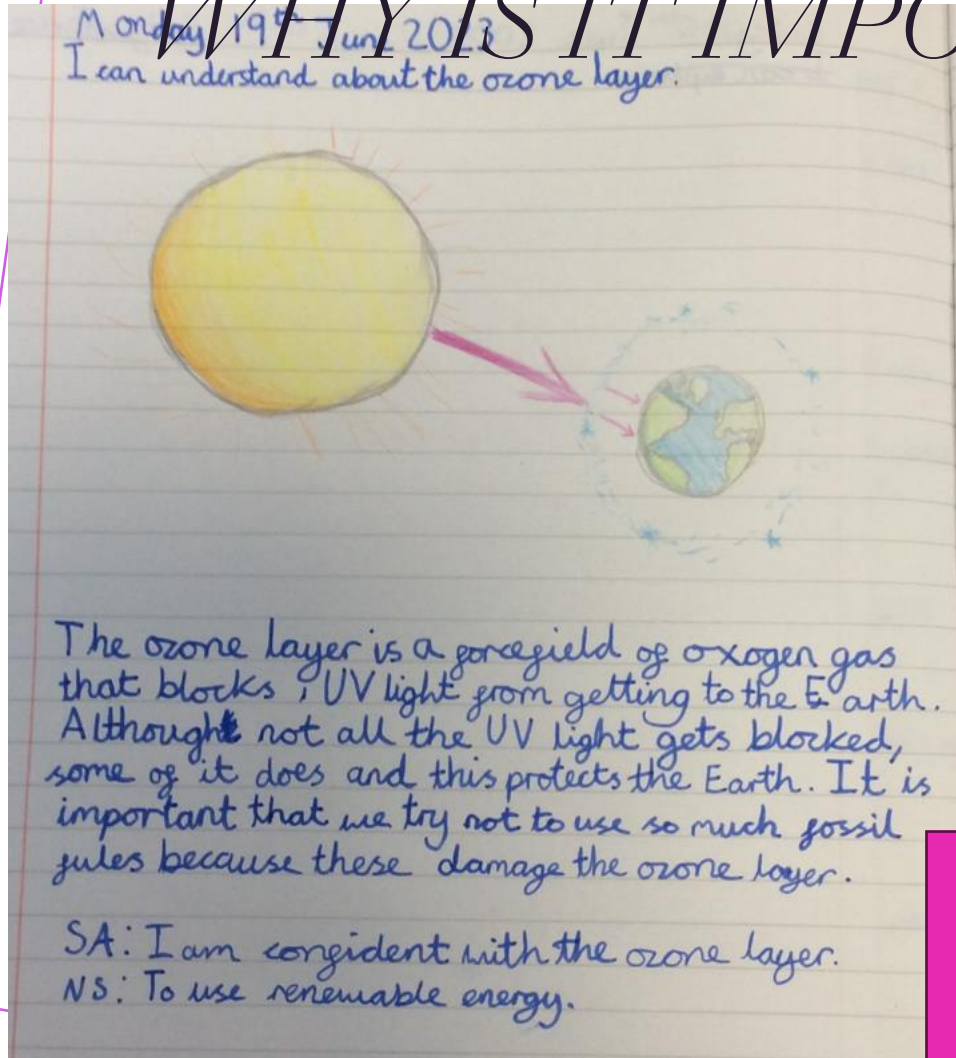
Climate change is a result of carbon dioxide from factories trapped in our atmosphere

Our world is 1 degree warmer
Can make people ill - breathing

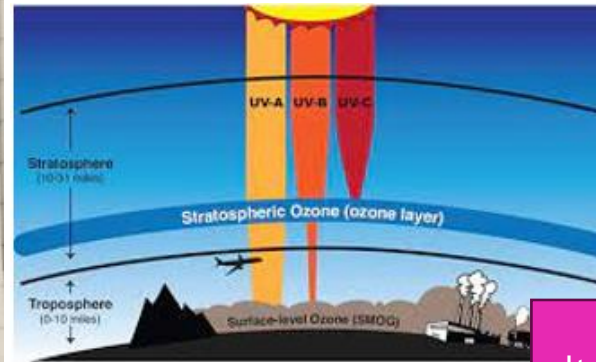
Wildfires, volcanoes, natural disasters

Natural gases releasing methane and carbon dioxide
Does it affect the Earth's core?
Does it affect humans and animals?

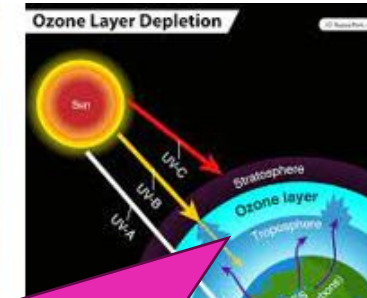
WHAT IS THE OZONE LAYER AND WHY IS IT IMPORTANT?



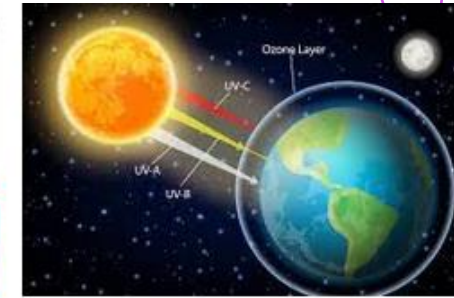
The ozone layer is the part of the Earth's upper atmosphere where ozone, a form of oxygen gas, is found.



CFC were found in hairsprays, deodorants and even fridges!



It stops most UV radiation reaching the ground. There is a whole in the ozone layer although through people making changes and banning CFC products it is getting smaller.



WHAT DO WE MEAN BY GREENHOUSE GASES AND WHY IS IT IMPORTANT TO KNOW ABOUT THEM?

There are 6 many causes of greenhouse gases, they are:

- ☐ Water vapor
- ☐ Carbon dioxide
- ☐ Methane
- ☐ Ozone
- ☐ Nitrous oxide
- ☐ Chlorofluorocarbon (CFC's)

What are the Greenhouse Gases?

+ Water Vapour -		+ Carbon Dioxide (CO ₂) -	
This is water in gas form. High in the atmosphere it condenses back to liquid water and rains back on the Earth. The water we drink is part of this cycle.	Water vapour blocks heat from escaping the atmosphere and warmer air holds more water vapour. As Earth heats up more water vapour can trap more heat.	Made up of carbon and oxygen, CO ₂ is around us naturally. It comes from decaying and living organisms, and from volcanoes.	Carbon dioxide is released when burning fossil fuels like coal and oil. It is the most important contributor to human-caused global warming.
+ Methane -		+ Ozone -	
Methane, made from carbon and hydrogen, is a normal gas released from wetlands, growing rice, raising cattle, using natural gas, and mining coal.	It traps a lot of heat. Scientists consider it to be the second most important contributor to human-caused global warming of all the greenhouse gases.	Up in the atmosphere where the planes fly, the ozone layer blocks the sun's radiation, which helps protect us from the powerful rays.	Close to the ground ozone acts as a greenhouse gas and can be formed by burning gas in cars and factories.
+ Nitrous Oxide -		+ CFC- Chlorofluorocarbons	
Nitrous oxide is a natural part of the nitrogen cycle.	Nitrous oxide is released by some types of factories, power plants and plant fertilizer. It damages the protective ozone layer and is a powerful greenhouse gas.	Should we have created these?	These gases are created by humans. They damage the protective ozone layer and are powerful greenhouse gases.

WHAT HAS BEEN THE IMPACT OF CLIMATE CHANGE ON OUR WORLD TO DATE?

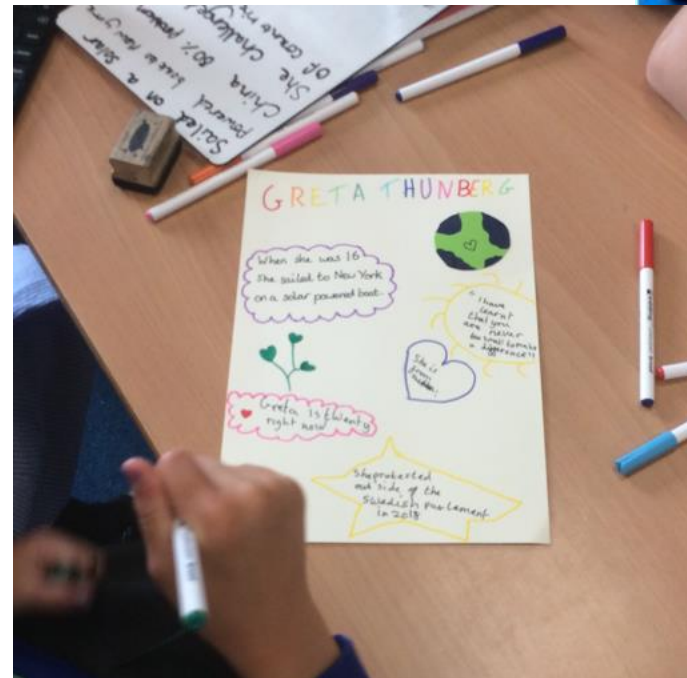
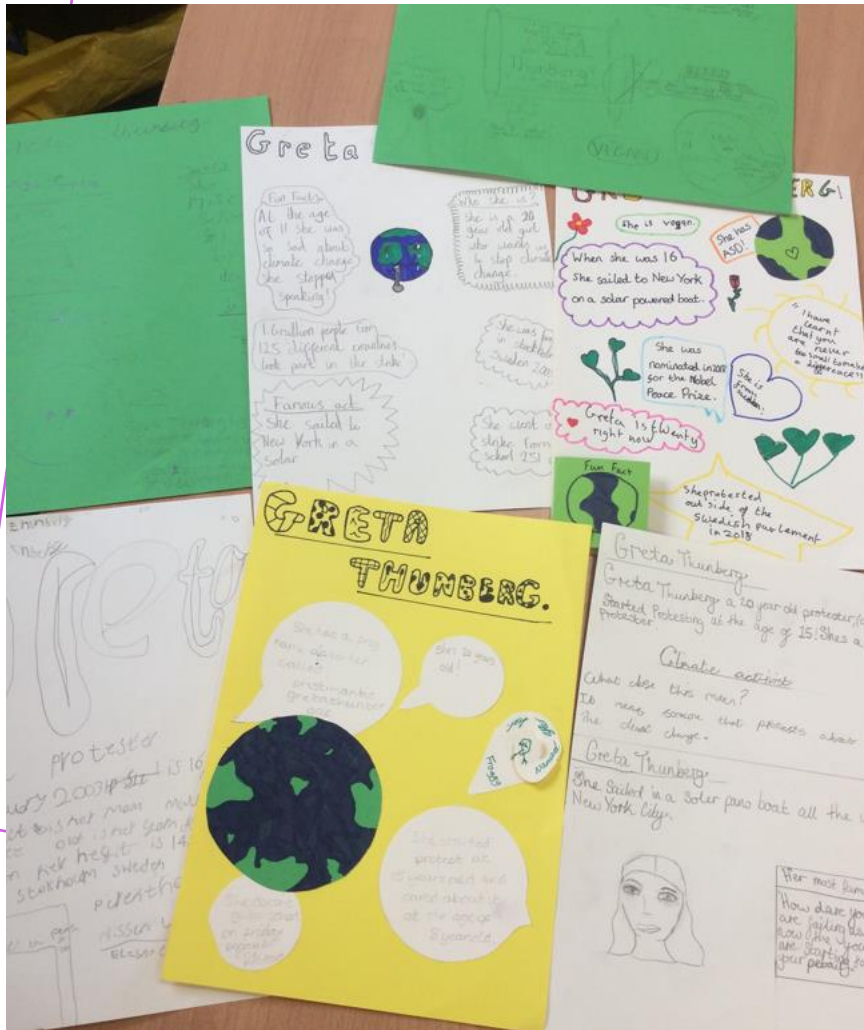
- Consider the following:
 - ☐ Climate change and agriculture
 - ☐ Climate change around the world
 - ☐ Climate change and 2019
 - ☐ Climate change and floods
 - ☐ Climate change and food
 - ☐ Climate change and our future (emergency Earth)

We looked at these areas and how climate change has impacted each group.



WHO IS GRETA THUNBERG AND WHY IS SHE ASSOCIATED WITH CLIMATE CHANGE?

We looked at Greta Thunberg and found out she was interested in climate change from 8 years old and will never travel by plane due it's impact on the climate.



Geography Year 6 Knowledge Organiser

Personal Development: Care and consideration for the planet. Taking responsibility for actions. Jobs: public speaker, politician, campaigner.

Main Learning: Climate change

Key knowledge
Know about the issues associated with industry and climate change
Know what industry is and why it is important
Know what is meant by climate change
Know why climate change is such an urgent issue
Understand why people get passionate about climate change
Know why climate change has such a big impact on the world's poorest countries

Vocabulary	
Greta Thunberg	Environmental activist who is known for challenging world leaders to take immediate action on climate change
fossil fuels	Include petroleum (oil), coal, and natural gas
greenhouse gases	Gases that trap heat inside the Earth's atmosphere
global warming	A greenhouse effect, resulting in the increase in global temperatures
ozone layer	An invisible layer of protective gases that circle the earth
methane	A greenhouse gas produced by cows and landfill sites



What I have learnt before: I have learnt about different climate conditions, for example, when considering different biomes or when comparing the UK with the Mediterranean.

Prior learning	Within this subject	Within other subjects	From personal experience

