



LESSONS IN CONSERVATION

SERVING TO SAVE

Gr 6- Lesson 6

Be the change



WHAT IS CLIMATE?



WEATHER VS CLIMATE

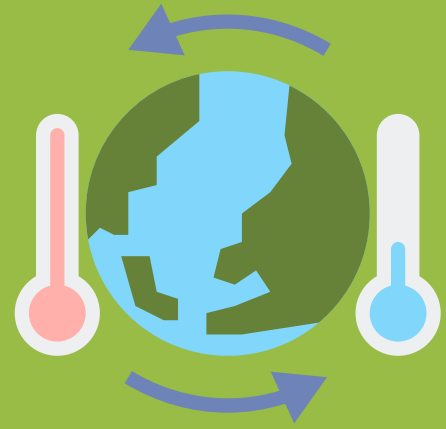


Weather describes the conditions outside right now for a specific place. E.g, rain, snow, sunny



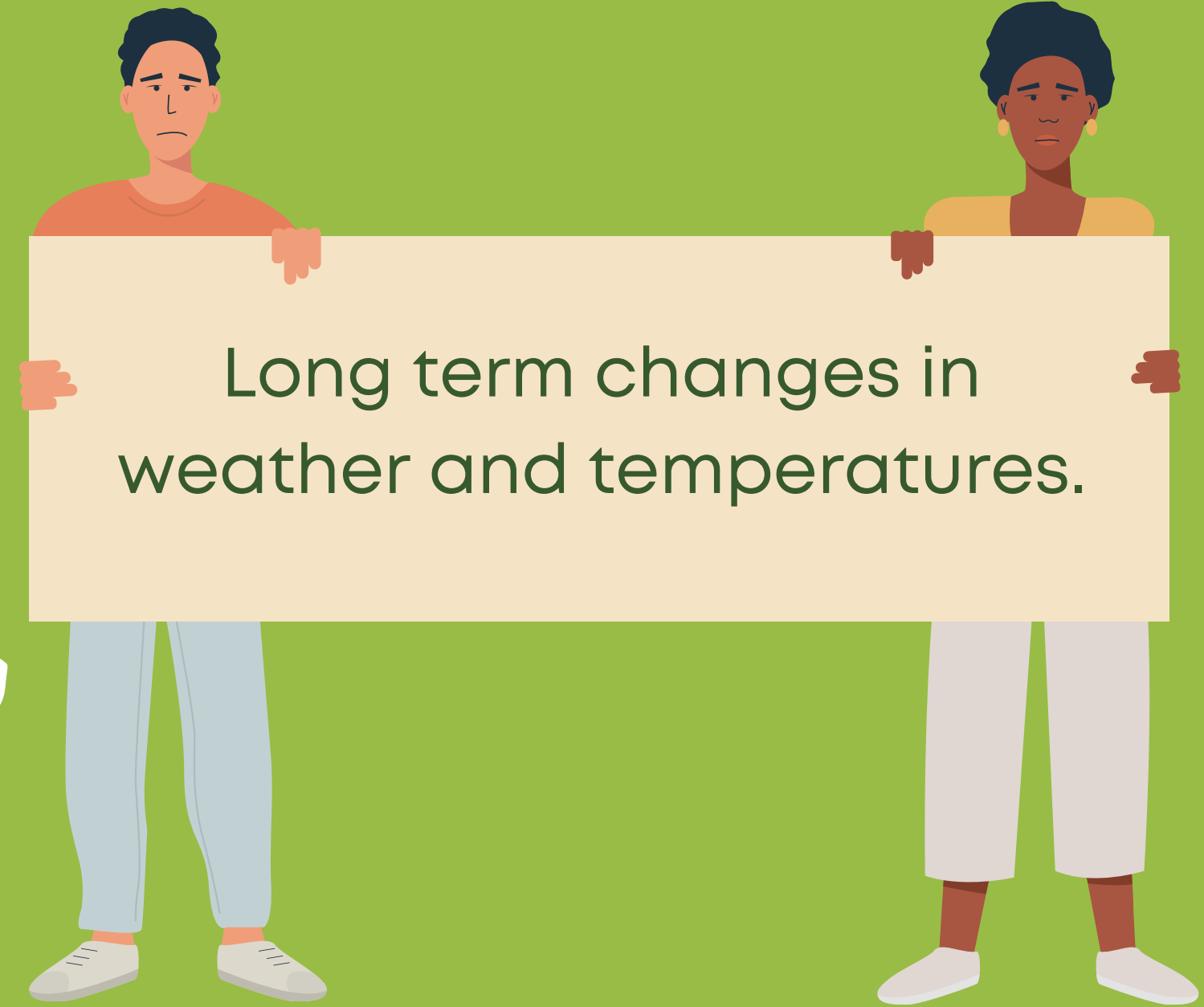
Climate describes the weather conditions that are expected in a region at a particular time of year.





what is...

CLIMATE CHANGE?



Long term changes in weather and temperatures.

These changes can be **natural**, or as a **result of human activity** which is not good for the planet.



HAVEN'T TEMPERATURES ALWAYS CHANGED?

Earth has moved gradually between **glacial events** (lots of ice) and **interglacial periods** (warmer weather) over

ICE AGE

A whole section of glacial events and interglacial periods of time



WE ARE IN AN
INTERGLACIAL PERIOD
NOW.



WHAT IS GLOBAL WARMING?



Global warming is part of climate change and is concerned with the rising temperatures of the global climate.

The Earth's temperature is getting hotter, increasing by about 1°C over the last 100 years.



That doesn't seem like a lot but this is a faster rate of warming than ever before and it's because of **HUMANS**



WHAT CAUSES GLOBAL WARMING?

Over the past 200 years, industrialisation and an increase in world population caused an increase of gases that can lead to rising temperatures around the world.



Electricity and Heat



Transportation



Manufacturing & Construction



Agriculture





Think back to the hottest day you have ever had, and then imagine wrapping yourself in lots of blankets.





LET'S WATCH A VIDEO



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FILM NEGATIVE

FILM NEGATIVE



FILM NEGATIVE



WHY IS GLOBAL WARMING **BAD**?

The weather needs to be just right to keep the living things on Planet Earth happy and healthy.





TIME FOR AN ACTIVITY



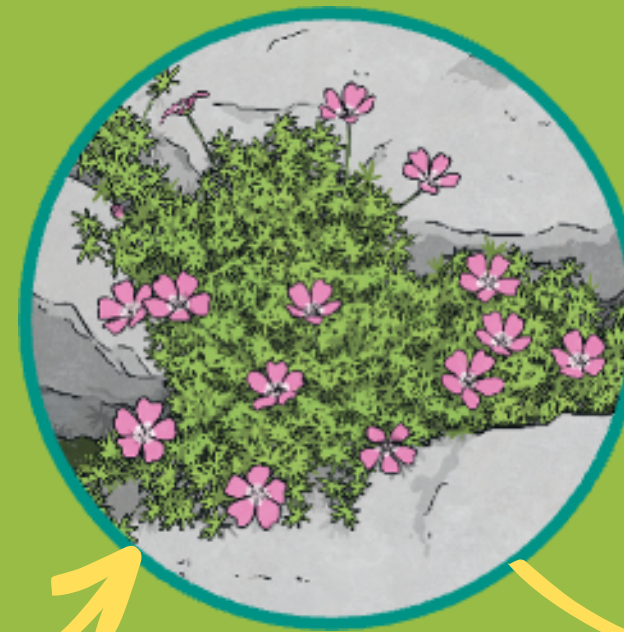
WHAT HAPPENS IF THE WEATHER ISN'T JUST RIGHT



Shrinking glaciers



Rising sea levels



Plant species shifting locations



Trees and plants flowering much earlier in the year





Climate change is affecting MIGRATORY BIRDS

Very vulnerable because they depend on multiple habitats and sites.



Warming is occurring rapidly in the Arctic, and at least 85 of the world's bird species breed in global Arctic regions





LET'S WATCH A VIDEO



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→ 13

FILM NEGATIVE



→ 14

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Climate change is affecting DESERT BIRDS

The Southern yellow-billed hornbill — could be wiped out in the hottest parts of its range in the arid Kalahari Desert by 2027 because of rapid warming.



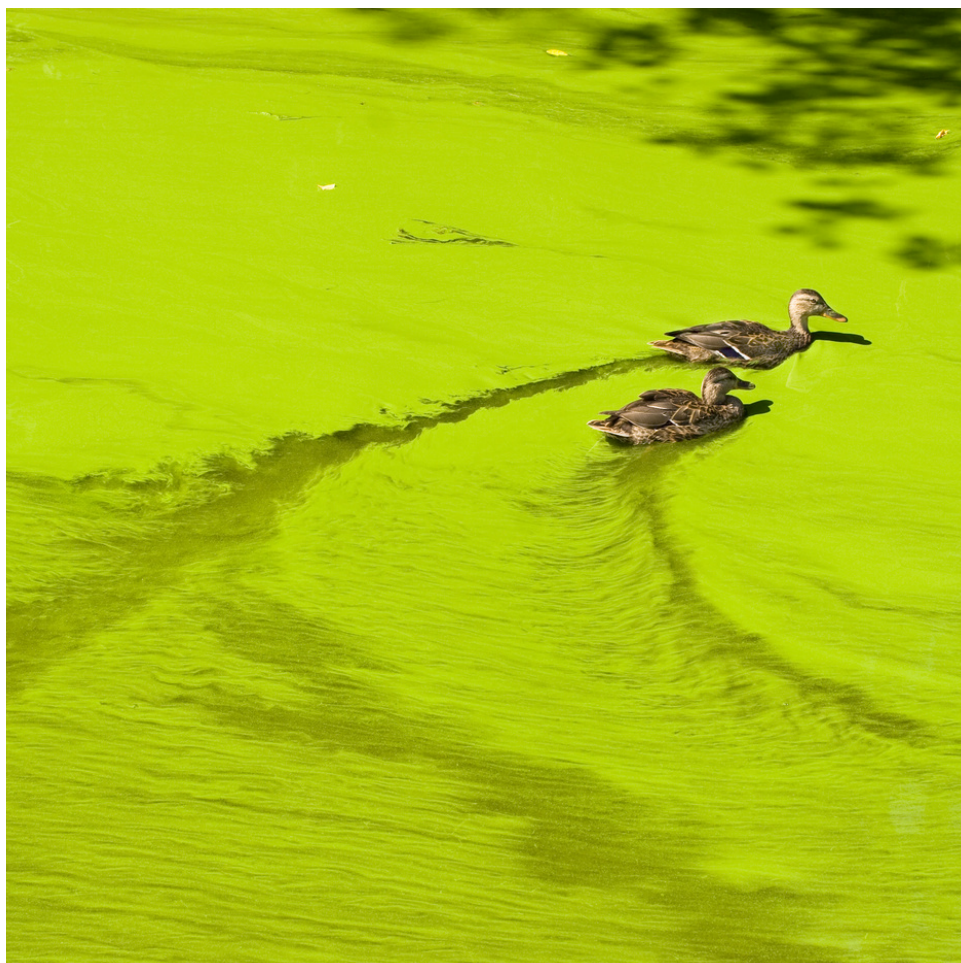
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Climate change is affecting RIVERS

Higher temperatures cause more frequent algal blooms and reduce oxygen levels.



This can cause fish to die and is harmful to ecosystems.



→ 13



FILM NEGATIVE

→ 13 A

FILM NEGATIVE

→ 14



FILM NEGATIVE

→ 14 A

Climate change is affecting RIVERS



When water temperatures rise, rivers become unsuitable for cold-water fish and then only species that thrive in warmer waters can survive.

Some warm-water species are already moving to waters at higher latitudes and altitudes.



WHAT ARE SOME SOLUTIONS TO CLIMATE CHANGE AND GLOBAL WARMING?

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1. **Educate** as many people as you can about what climate change is and how they can get involved to stop it.
2. **Recycle**
3. Plant a **tree**- A single tree will absorb one ton of carbon dioxide over its lifetime.
4. **Turn off your electronic devices** when you are not using them.
5. Change your light bulbs.
6. Only purchase food that you will buy and compost any that is left over.



TIME FOR AN
ACTIVITY





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