

WHAT IS CLIMATE CHANGE?

PENGUINS AND POLAR BEARS

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PENGUINS AND POLAR BEARS

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PENGUINS AND POLAR BEARS



CLICK TO PLAY

Video opens in Vimeo

LET'S START FROM THE BEGINNING...



rain

LET'S START FROM THE BEGINNING...



rain



wind

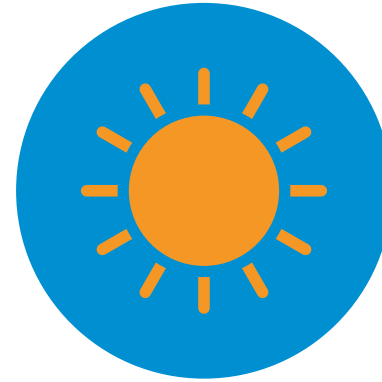
LET'S START FROM THE BEGINNING...



rain



wind



sunshine

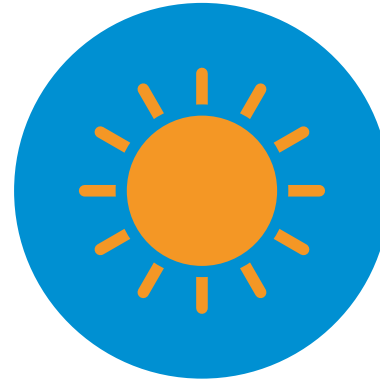
LET'S START FROM THE BEGINNING...



rain



wind



sunshine



fog

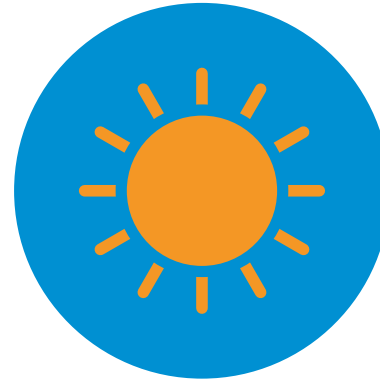
LET'S START FROM THE BEGINNING...



rain



wind



sunshine



fog



frost

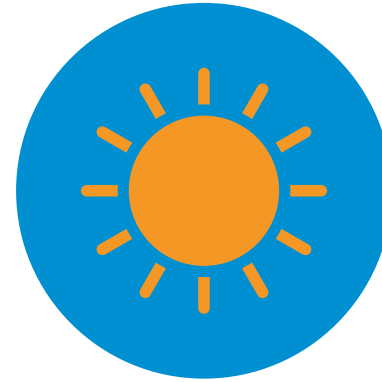
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rain



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frost



snow

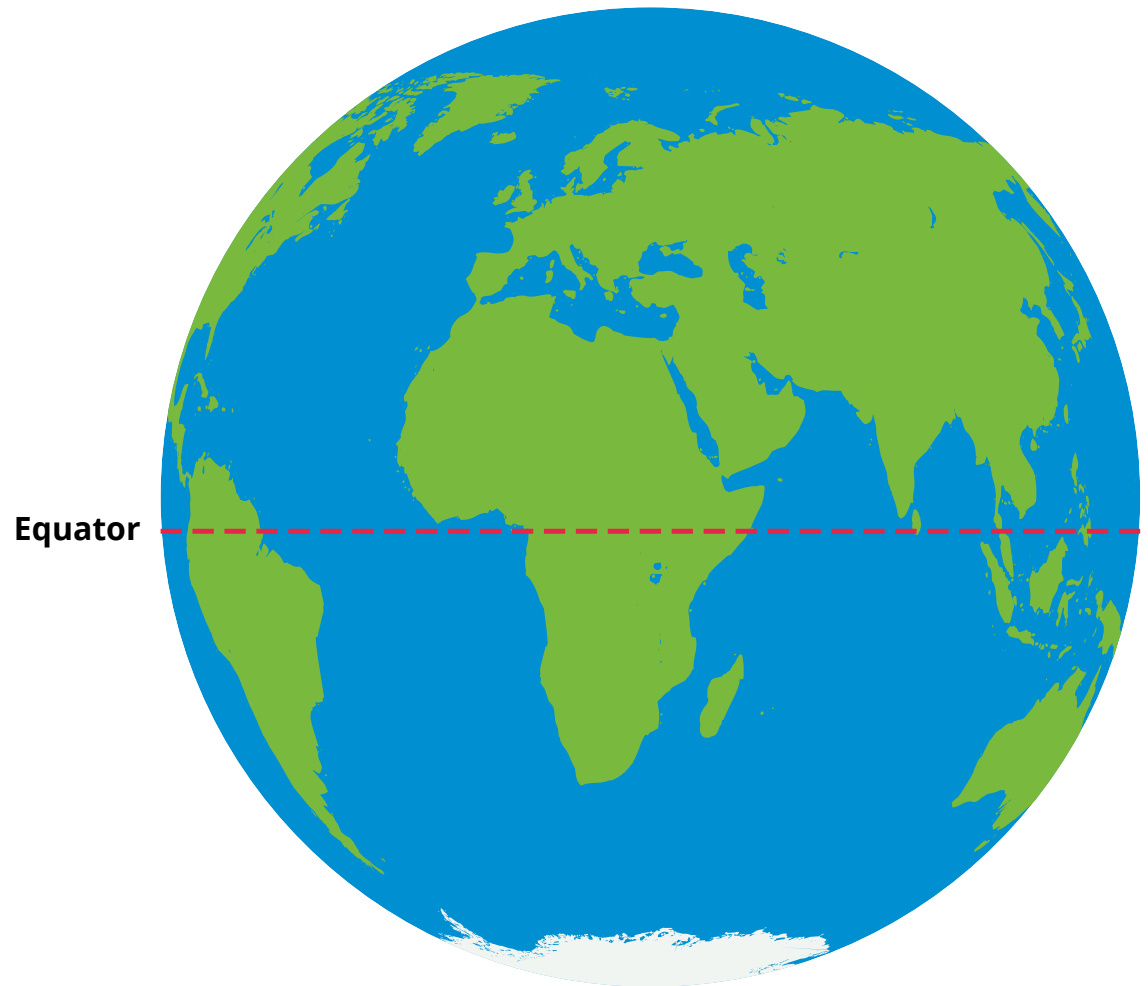
This day-to-day change is called the **weather**.

CLIMATE

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

The equator is an imaginary line around the middle of the Earth, a bit like a belt. The areas closest to this belt have very hot climates. Areas nearest to either of the poles have very cold climates.

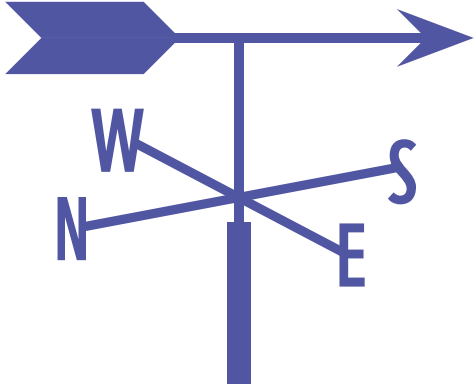
See if you can name some of the places found in these 5 different climate zones. Hover over the zones to find out more.



WEATHER WATCHING

The weather changes in four main ways, which can be monitored and measured in order to predict what the weather will be like for the next day or the coming week.

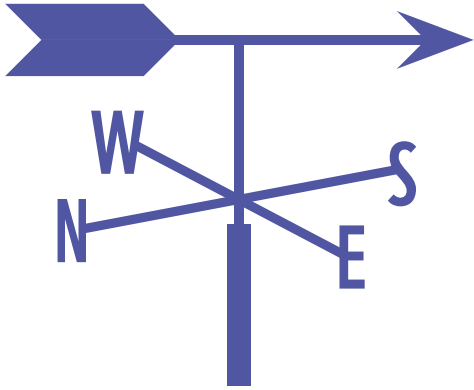
WEATHER WATCHING



MOVEMENT

Winds blow from all directions, knowing which way the wind is blowing can help predict the weather.

WEATHER WATCHING



MOVEMENT

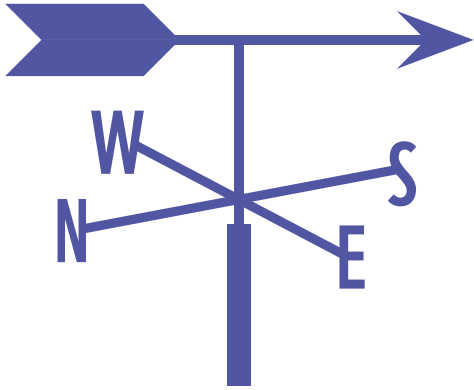
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MOISTURE

The moisture content of the air causes mists and fogs and of course rain, and frost if it's cold.

WEATHER WATCHING



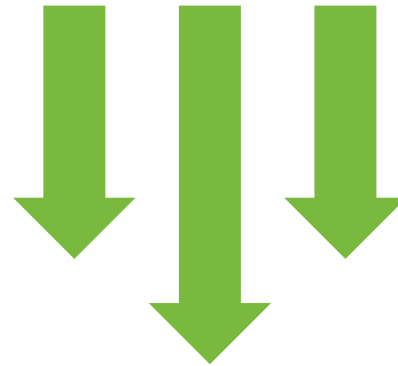
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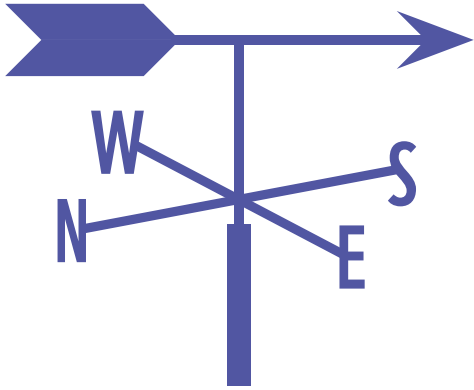
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PRESSURE

Pressure affects whether we have clear, cloudless days or thunder and lightning storms.

WEATHER WATCHING



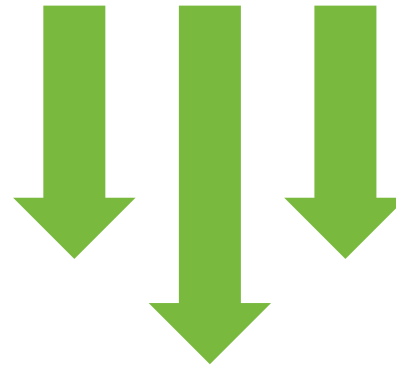
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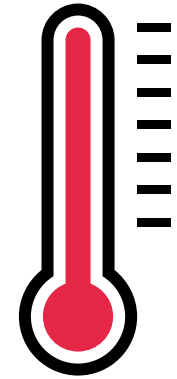
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TEMPERATURE

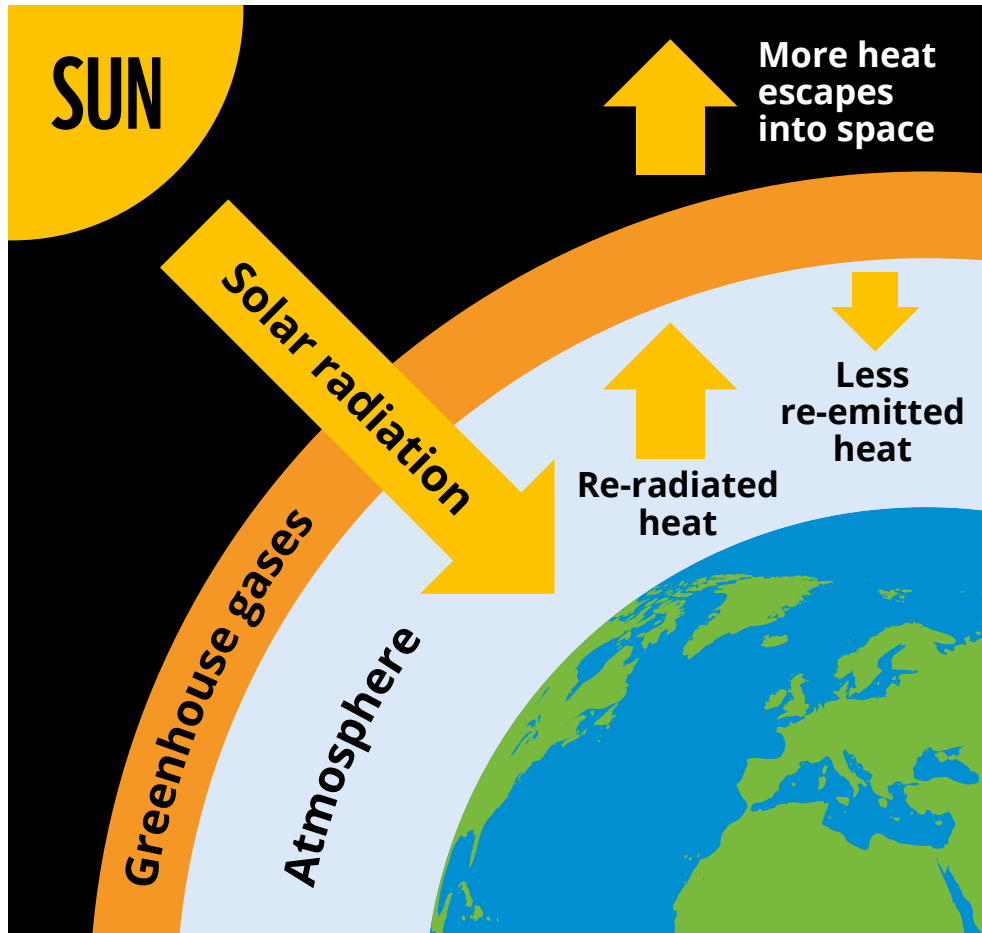
Temperature is influenced by all of these, as well as how much sunshine reaches the Earth.

CLIMATE CHANGE

Since the 18th century scientists known as meteorologists have been monitoring and recording the weather. These records show that the Earth's atmosphere is beginning to get warmer which is causing our climate to change.

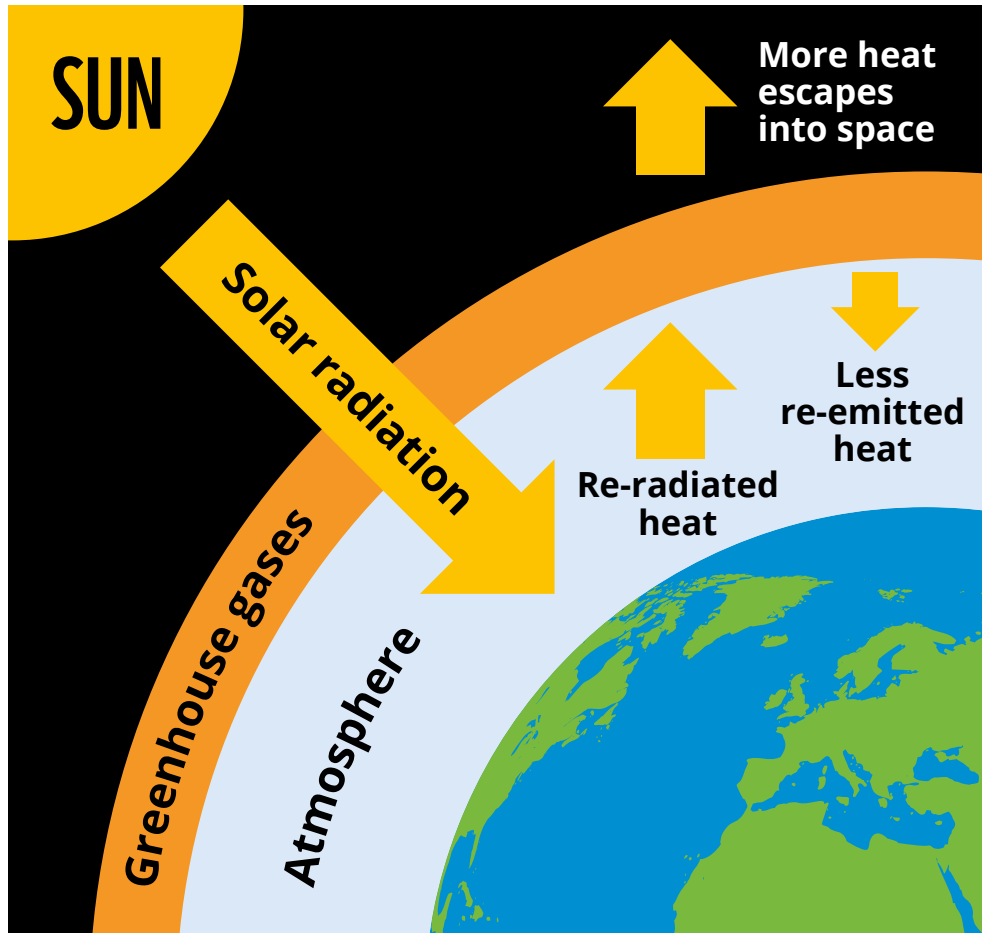
This is known as **climate change**.

CLIMATE CHANGE

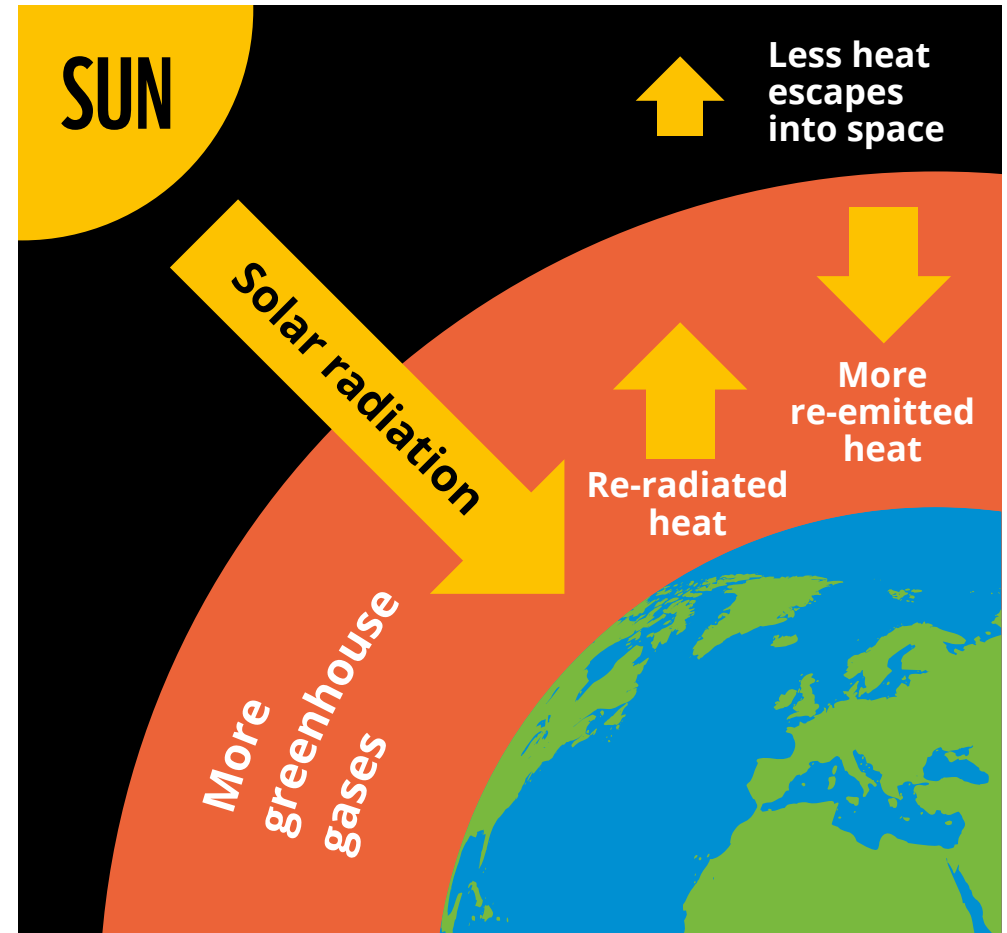


NATURAL GREENHOUSE EFFECT

CLIMATE CHANGE



**NATURAL
GREENHOUSE EFFECT**



**INCREASED GLOBAL WARMING
CAUSED BY HUMAN ACTIVITY**

WHY DOES IT MATTER?

Human activity has caused the Earth to get warmer in the last 100 years.

Climate change caused by our greenhouse gases is changing our weather patterns leading to rising temperatures and extremes of weather - both of which are damaging our natural environment.

Think back to the places around the globe you named earlier. How do you think weather extremes and climate change will affect the animals and people that live there?



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Hover over the dots for ideas. →

CLIMATE CHANGE AND US

What about us, here in the UK?

**SEVERE
WEATHER
WARNING
ACROSS
THE UK**



CHOCOLATE PRICES ARE RISING

**THE DROWNING OF THE
NORTH OF ENGLAND**



**90 MPH
SUPERSTORM
IS ON WAY**



**FLOOD CRISIS GRIPS
CITIES WITH MORE
RAIN FORECAST**

CLIMATE CHANGE AFFECTS US ALL!



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