

A close-up photograph of a green leaf, showing its intricate vein structure and numerous small, glistening water droplets. The leaf is oriented diagonally, with the main vein running from the top left towards the bottom right. The background is a solid, slightly darker green, creating a layered effect.

Climate Change



Vocabulary

Climate

Weather

Drought

Glacier

Deforestation

Factories

Fertilizers

Greenhouse

To trap

To escape

Clima

Tiempo

Sequia

Glaciar

Deforestacion

Fabricas

Fertilizante

Invernadero

Atrapar

Escapar



Climate vs. Weather

Climate

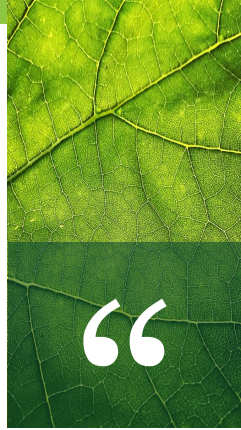
- EXPECTED weather conditions at a certain time.
- In November, in Andalucia, is it usually rainy or sunny?
- Is it usually hot or cold?

Weather

- What is happening RIGHT NOW
- Is it raining or sunny today?
- Is it hot or cold today?



What is climate change?



*The change in the average
conditions of a place.
Temperature, rainfall, etc.*



Why is this a problem?

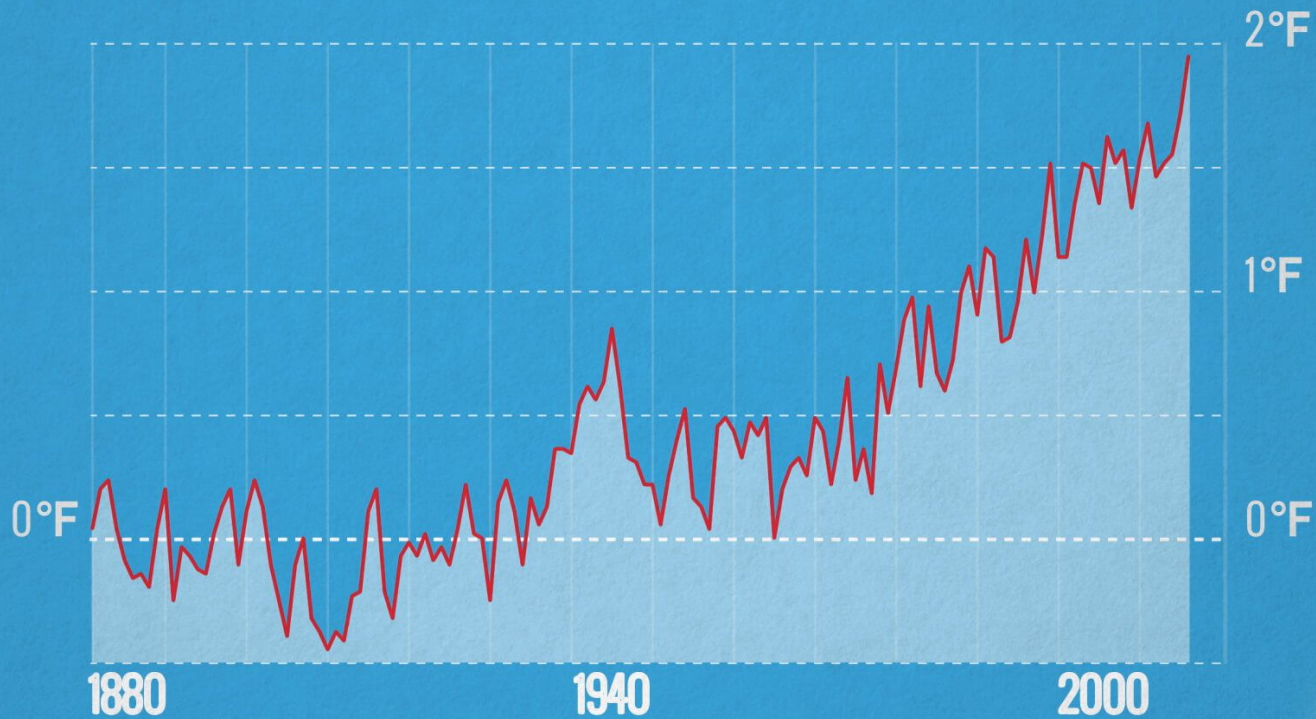


Effects of climate change

- Higher sea levels
- Melting glaciers
- Flooding
- Wildfires
- Heat waves
- Destruction of ecosystems
- Drought

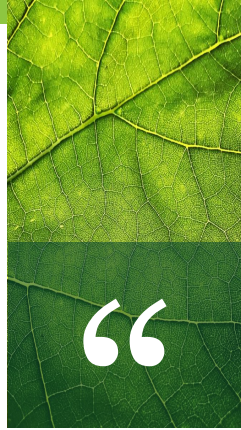


ANNUAL GLOBAL TEMPERATURE CHANGE





**What causes climate
change?**



*Human activities release gases
into the atmosphere. These gases
trap heat and raise the overall
temperature of the Earth*

Carbon dioxide, methane, nitrous oxide, etc.



Causes of climate change

- Burning coal, oil, and gas
 - Cars, buses, planes
- Deforestation
- Livestock farming
 - Cows
- Industries and factories
- Agriculture
 - Fertilizers, processing in factories, transport



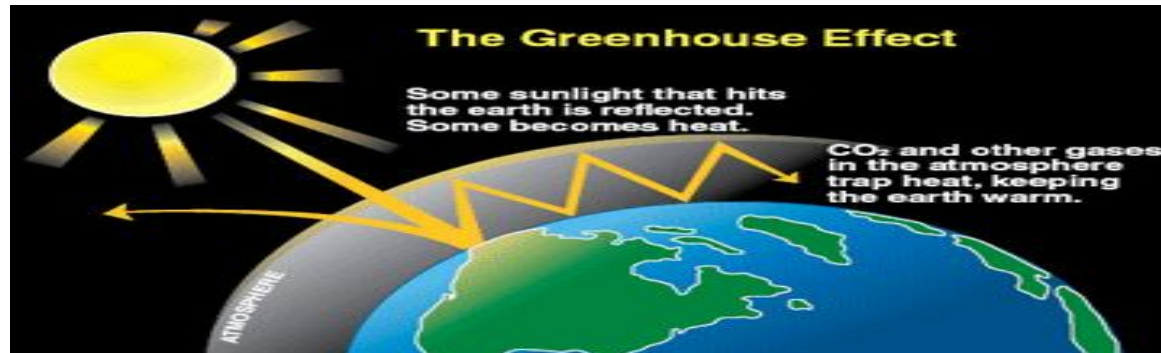


The Greenhouse Effect



How greenhouse effect works

- The sun **warms** the earth during the day
- The Earth **cools** at night and heat is released into the atmosphere.
- The gases in the atmosphere **trap some of the heat inside and some escapes**







How the greenhouse effect causes climate change

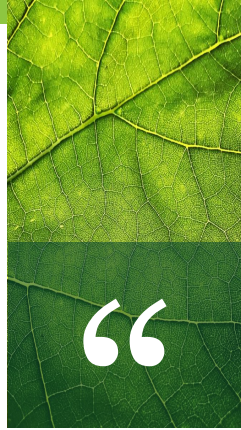
- Human activity **releases greenhouse gases** into the atmosphere
- Greenhouse gases **trap heat**
- **Less heat escapes** the atmosphere
- The earth **doesn't cool** like it should
- Overall temperatures rise.



Quiz



**What is the difference between climate
and weather?**

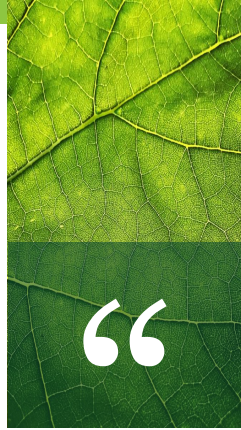


*Weather is what is happening
NOW*

*Climate is what the weather
usually is.*



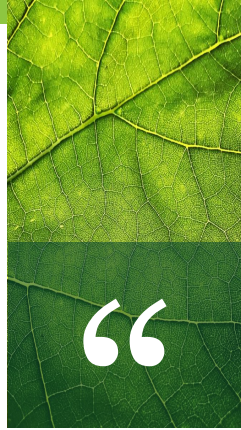
What are the effects of climate change?



*Flooding, wildfires, melting
glaciers, sea levels changing,
destruction of animal habitats...*



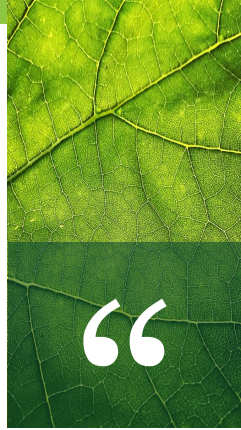
What is the greenhouse effect?



*Gases in the atmosphere trap in
heat and the Earth warms*



**Which human activities release
greenhouse gases?**



Factories, agriculture, livestock farming, deforestation, burning coal...