

Climate Change

101

An introduction to climate change and the ACE
Award



What is climate change?

Climate change refers to a large-scale, long-term shift in the planet's weather patterns and average temperatures.

-Met office

Its caused by an increase in greenhouse gases (Carbon Dioxide, Methane...) in the atmosphere creating the 'greenhouse effect'

Why is it a problem?



Flooding

Land loss for
farming & housing



Economic damage

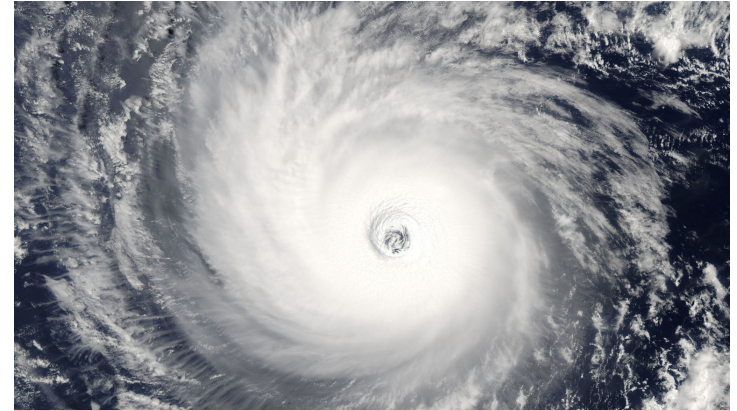
Jobs loss



Water & air pollution



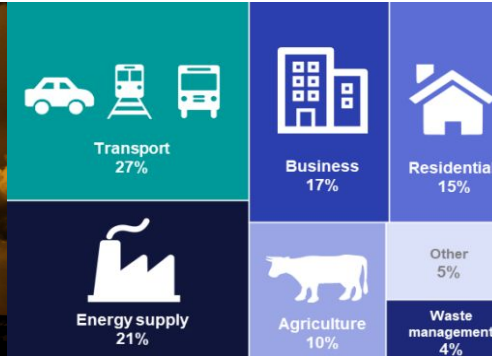
Food shortages



Extreme weather events

Hurricanes, heat waves,
droughts...

What causes it?



Emissions of greenhouse gases (human activity)

- From burning of fossil fuels and hydrocarbons (e.g. petrol & coal)
 - Farming (methane)
 - Deforestation



Natural factors

- Volcanoes erupting
 - Solar flares
- Overwhelmingly human activity

Climate terminology

Net Zero

Emissions are reduced to such a low amount that they can be fully absorbed so they can't add to the greenhouse effect

Paris Agreement

This was a landmark agreement signed in Paris, 2015, where countries set out their goals to combat climate change

Greenhouse Gases (GHG)

Toxic gases that add to the greenhouse effect that traps infrared waves from escaping into space causing the Earth to heat up and climate change. The biggest is carbon dioxide (CO₂) so many climate actions are based around CO₂

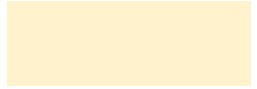
Carbon Footprint

The amount of carbon dioxide a person, place, company or organisation emits

Solutions

Think personally, locally, nationally & internationally

*Take a post-it
note*



Solutions

Some of the things we've come up with



Electric Vehicles

Introducing EVs and the right infrastructure (charging points)



Insulation

Buildings need to be able to keep as much heat in as possible so they don't waste energy



Clean Energy

Making sure that all energy is from clean sources like renewables



Increasing & improving public/active transport



Introduce more sustainable crops and
increase farming efficiency



Building Flood Defences

These are only a few
examples. Climate action
often differs from place
to place

What is ACE and what can we expect from these lessons?

ACE stands for the
'Advocates for the
Climate &
Environment'

Calderdale Youth
Council has
partnered with
Calderdale Council,
Solar 4 Schools and
the Regional Youth
Climate Assembly
(RYCA)



ACE promotes
climate education,
green jobs and
schools being as
eco friendly as
possible

Later lessons go into
more detail about
certain areas of
climate change. This
was a brief
introduction to it.

RYCA

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Or speak to the teacher incharge of youth voice