

Year 8: Climate Change

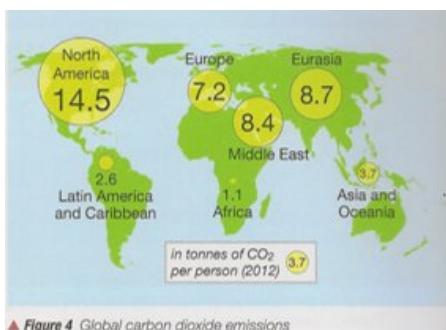
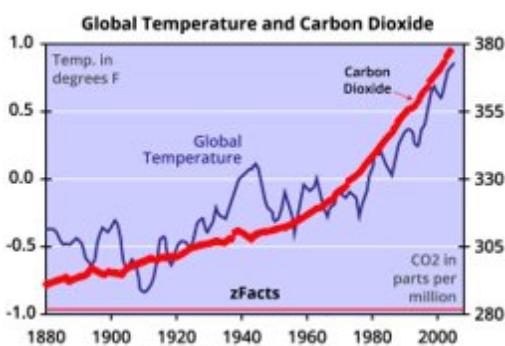
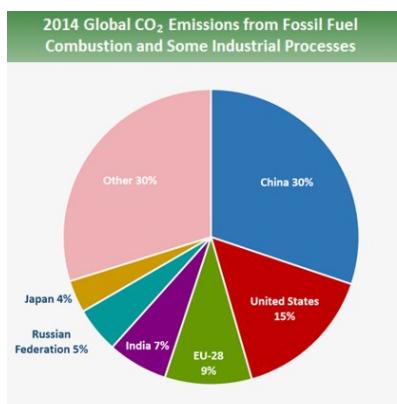
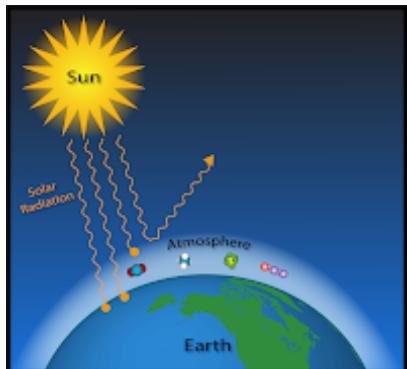
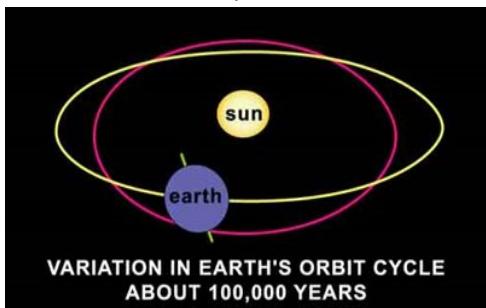
What I need to Know...

The human and natural causes of global warming (GW)
 What gases are responsible for GW, and where they come from
 The impact of GW around the world
 Ways we can reduce the impact of climate change
 Ways energy can be produced from different sources
 Renewable and non-renewable energy: the pros and cons of both
 What future issues and solutions we might face

Key vocabulary

Climate change/global warming/climate graphs/Earth's orbit/emissions/greenhouse gases/nitrous oxide/carbon dioxide/methane/tropical storms/droughts/extreme weather/renewable/non-renewable/mitigation/adaption/Tokyo protocol/Copenhagen protocol/reduce, reuse, recycle/carbon footprint/ecological footprint/accelerated greenhouse effect/sustainability

Student reference points:



Challenge Question:

Calculate your carbon footprint, and come up with solutions within your household to reduce it
 How does the world's rapidly increasing and affluent population accelerate climate change?
 How does the world's changing industrial sectors impact climate change?

Suggested reading/ watching:

How the planet's climate has changed over time
 Calculate your carbon footprint
 Climate Change – The Facts, with David Attenborough and Greta Thunberg
 Before the Flood, with Leonardo DiCaprio
 How different renewable and non-renewable energies work

Yr 8 Development and Africa:

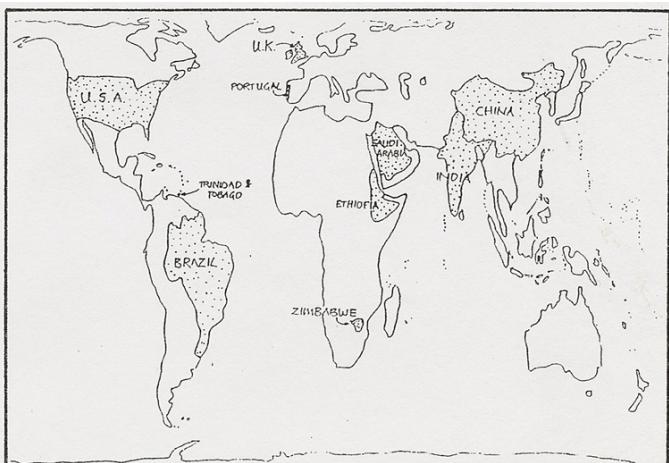
What I need to Know...

What are development Indicators? How do we measure development in a country? What are refugees? Why do people become refugees? Why are some African countries developed and some less developed? Why do some places in Africa have issues with clean water? How can we make water access better? What is Coltan? Why is it a blood mineral? Why do girls have issues accessing education in some African countries?

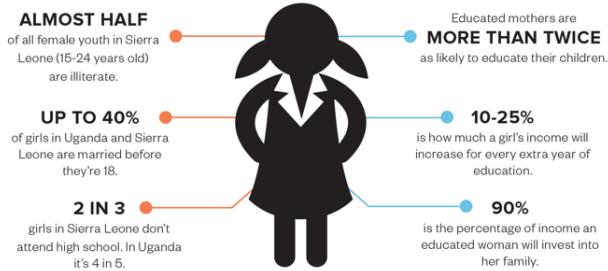
Key vocabulary

Development/ Development indicators/ birth rate/ death rate/ infant mortality/ Life expectancy/ GDP/capita/ Literacy rates/ Refugee/ migrant/ sanitation/ water quality/ strategies/ coltan/ dictatorship/ corruption/ blood minerals/

Student reference points:



EDUCATION CAN CHANGE EVERYTHING



Challenge Question:

Why is providing African countries with clean water NOT going to help them develop?
 What are the sustainable Development Goals?
 Why are there refugees in the UK from Ukraine?
 What are the benefits of educating girls?
 What should we do instead of using coltan in our tech?

Suggested reading/ watching:

Coltan mining in DRC
 Water issues in Malawi
 Memories Life- Malawi
 In the Sea there are Crocodiles
 The Bottom Billion- Hans Rosling