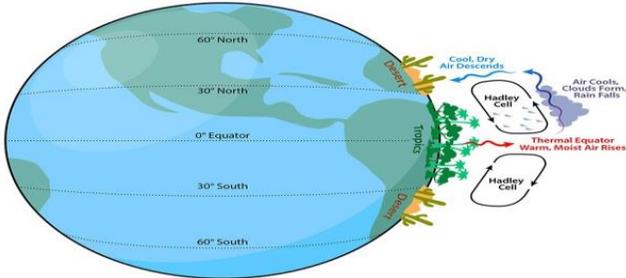


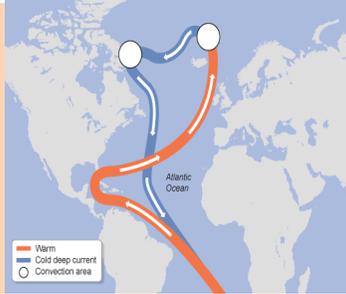


Year 9 Geography – Climate Change

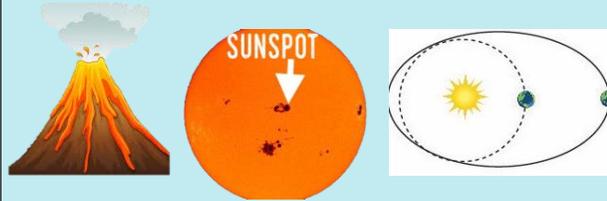
Atmospheric Circulation – Hadley Cell



Ocean currents –
North Atlantic Drift –
transferring energy
from the equator to
the poles and
warming the climate
of the UK.



Natural causes of climate change



Evidence for climate change



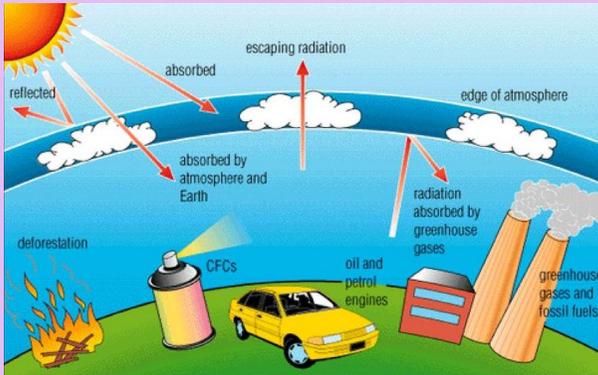
Ice cores – trap volcanic ash and air bubbles to give information on past climate

Paintings, diaries and literature – describe the climate from one person's viewpoint – not very reliable!



Tree rings – scientists look at the width of the rings – wider ring = warmer, wetter climate so more growth of tree.

Enhanced Greenhouse Effect



Caused by human activity increasing the amount of greenhouse gasses into the atmosphere. EG: Industry, transport and farming



Impacts of Climate Change

| UK | BANGLADESH |
|--|--|
| Sea levels could rise by over 80cm in the south-east threatening low lying coastal areas such as London with flooding. | Increased temperatures = more evaporation = dried up land which is difficult to farm and crops die = food prices rise, people starve |
| The South of the UK will get warmer which means tropical diseases such as malaria may begin to affect people | Sea level rise – Bangladesh cannot afford coastal defences so is vulnerable to land being destroyed |
| Warmer oceans – cod migrate to colder Arctic waters – affects food chain & fishermen's jobs | More intense and more frequent tropical storms - damage to people and property |

Key Vocabulary

| | |
|--|--|
| Quaternary Period | The time of the last 2.6 million years |
| Holocene | 10,000y.a – present, most glacial ice melted |
| Pleistocene | 2.6 m.y.a – 10,000 y.a Most recent ice age |
| Glacial | Colder, ice age periods of time |
| Interglacial | Warmer periods of time |
| Greenhouse Gas EG: CO ₂ , Methane | A gas that contributes to the warming of the planet |
| Industry | Production and making of goods |
| High pressure | When air sinks, causing dry conditions |
| Low pressure | When air is rising, cools, condenses so rainfall occurs. |
| Reliable/reliability | How trustworthy is the evidence? |