

# Year 9: Biomes

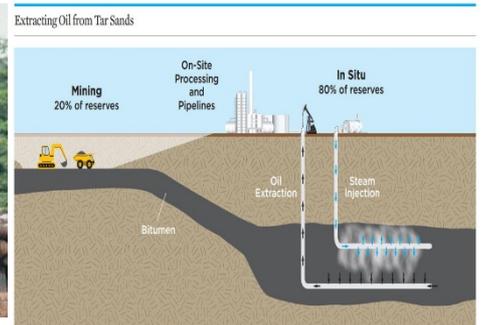
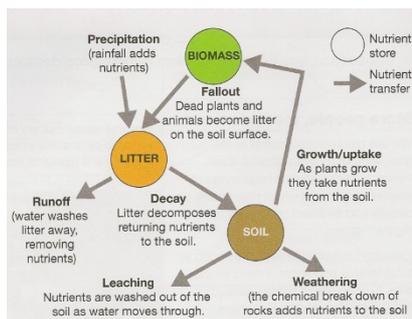
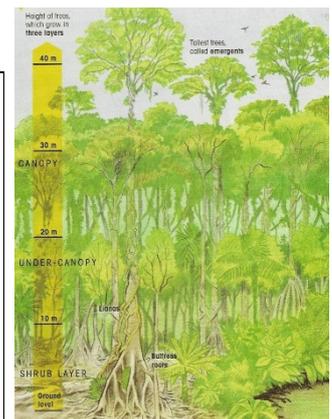
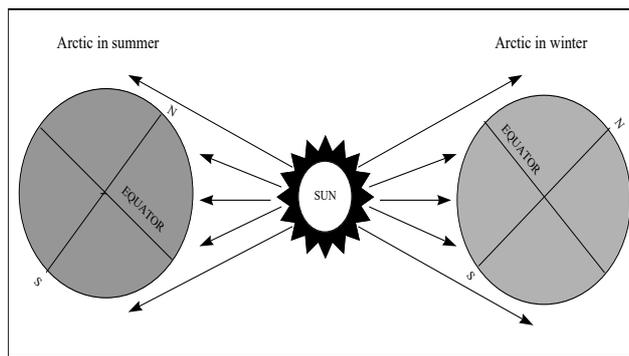
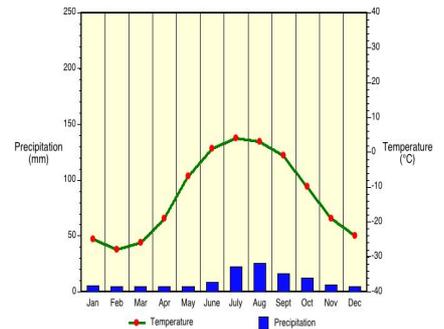
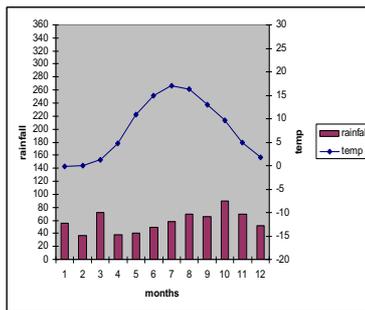
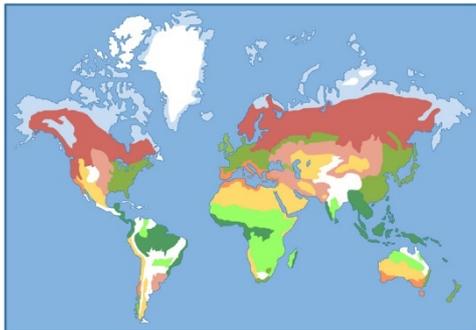
## What I need to Know...

What are the 6 ecosystems  
 Factors affecting ecosystems  
 How climate affects ecosystems  
 Adaptations in each ecosystem  
 How the nutrient cycle works in the TRF  
 How deforestation impacts the nutrient cycle  
 Threats to ecosystems from growing populations  
 How indigenous populations use the TRF  
 How exploitation (tar sands) impacts the TRF and Taiga  
 Strategies to manage biomes

## Key vocabulary

Ecosystem/ Biomes/ Climate/ Nutrient cycle/ rainforest/ savannah/ desert/ Deciduous forest/ Coniferous (taiga) forest/ Tundra/ Ground floor/ Understory/ canopy/ Emergent/ Adaptations/ distribution/ Exploitation/ Indigenous/ Tar sands/ Reforestation/ Selective logging/ slash and burn/ deforestation/ palm oil production/ Dams/ Mining/ Cattle ranching/ sustainability

## Student reference points:



## Challenge Questions:

How does current climate change impact on the different biomes?  
 How does the worlds rapidly increasing and affluent population impact on Ecosystems and the worlds Biomes?

## Suggested reading/ watching:

- Planet Earth
- Biomes videos
- Tar sands research and video
- Rainforests
- Population impact on Biomes

## Yr 9 Tectonics:

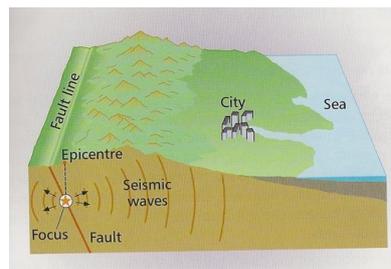
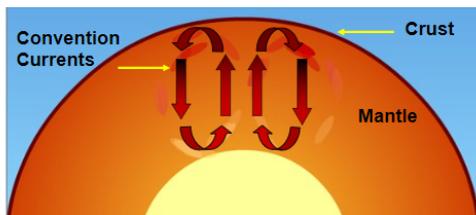
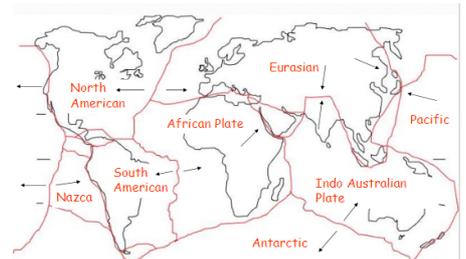
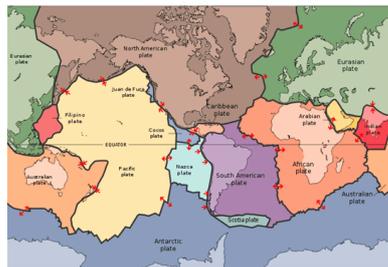
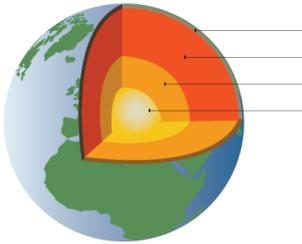
### What I need to Know...

The structure of the Earth and the physical processes within the Earth  
 The theory of plate tectonics  
 Plate boundaries: the different way they move and interact with each other  
 How volcanoes and earthquakes form  
 Impacts of earthquakes and volcanoes on LICs and HICs  
 Strategies used to reduce the impact of earthquakes and volcanoes  
 How tsunamis are formed  
 The impact of tsunamis

### Key vocabulary

Inner core/outer core/ mantle/magma/crust/ continental drift/tectonics/Pangea/convection currents/plate margins (boundaries)/tectonic hazard/conservative/ constructive/ destructive/collision/volcanoes /shield/composite/ earthquakes/ tsunamis/HICs/ LICs/mitigate/plan, prepare and protect/ magnitude/eruption/pyroclastic flow/ash

### Student reference points:



### Challenge Question:

In what ways have scientists discovered and researched the different layers of the Earth?  
 Why do some countries have large populations living near a tectonic hazard?  
 Which tectonic hazard has the greatest impact, and why?

### Suggested reading/ watching:

Documentary on St Helena eruption  
 Documentary on San Francisco earthquake  
 Documentary on Japanese tsunami of 2011  
 Inside the Volcano documentary  
 TED-ed: why are earthquakes so hard to predict  
 Earthquakes 101 by National Geographic