



Valentines High School

Geography KS3 Academic Learning Journey

Y7 Skills

- Atlas and map skills
- Cartographic skills
- Data and information research skills
- Numerical skills and statistical skills
- Investigative skills

Y7 Knowledge

World Geography and Map Skills:

- The differences between human, physical and environmental Geography
- Locating mountain ranges from around the world
- Recognising the continents
- The differences between Great Britain and the United Kingdom
- Counties and London boroughs
- Map symbols
- Relief and contour lines on maps
- Compass directions
- Distances on maps
- 4 and 6 figure grid references

Cool Geography:

- Why areas of the world are colder than others
- The differences between the north and south Poles
- How people can work in Antarctica
- Why Krill are becoming extinct
- The Antarctic Treaty
- Why the environment in the Arctic is being exploited for oil
- How the Arctic environment is under threat because of exploitation
- Glaciers

Rivers:

- The drainage basin
- The water cycle
- River profiles
- River processes
- Landforms in the lower course
- Landforms in the middle course
- Landforms in the upper course
- Factors that cause river flooding

Population:



- How world populations are changing
- Demographic transition models
- Population pyramids
- Population densities
- An ageing population

Y8 Skills

- Investigative skills
- Atlas and map skills
- Graphical skills
- Data and information research skills
- Cartographic skills
- Numerical skills and statistical skills
- Fieldwork skills

Y8 Knowledge

Restless Earth:

- Plate tectonics
- Convection currents
- Plate boundaries
- Types of volcanoes
- How high income countries are affected by natural hazards
- How low income countries are affected by natural hazards
- How to predict, plan and prepare for natural hazards

Globalisation:

- How globalisation has caused the world to 'shrink'
- Global networks
- Global trade
- Transnational Corporations
- Outsourcing
- Migration
- Fair trade
- Industries

Impossible Places:

- What makes a place 'impossible'
- The effects of urban areas on the environment
- Desert environments
- The dangers of desert environments
- How animals adapt to desert environments
- Desert survival
- Desertification
- Sustainability



Y9 Skills

Topic 7:

- Comparing climate graphs for different biomes
- Use of world maps to show the location of global biomes
- Use and interpretation of line graphs showing the range of future global population projections, and population in relation to likely available resources.

Topic 8:

- Use an interpretation of nutrient cycle diagrams and food webs diagrams
- Use of GIS to identify the pattern of forest loss.

Topic 9:

- Use and interpretation of world maps showing the distribution of energy resources
- Use of oil price and oil production data to graph trends over time.

Y9 Knowledge

Topic 7:

- 7.1: The Earth is home to a number of very large ecosystems (biomes) the distribution of which is affected by climate and other factors
- 7.2: The biosphere is a vital life support system for people as it provides both goods and services

Topic 8:

- 8.1: The structure, functioning and adaptations of the tropical rainforest reflect the equatorial climate
- 8.2: The taiga shows different characteristics, reflecting the more extreme and highly seasonal climate
- 8.3: Tropical rainforests are threatened directly by deforestation and indirectly by climate change
- 8.4: The taiga is increasingly threatened by commercial development
- 8.5: Conservation and sustainable management of tropical rain forests is vital if goods and services are not to be lost for future generations
- 8.6: The taiga wilderness areas need to be protected from overexploitation

Topic 9:

- 9.1: Energy resources can be classified in different ways and their extraction and use has environmental consequences
- 9.2: Access to energy resources is not evenly distributed which has implications for people
- 9.3: The global demand for oil is increasing, but supplies are unevenly available
- 9.4: The world's continuing reliance of fossil fuels increases pressure to exploit new areas
- 9.5: Reducing reliance on fossil fuels presents major technical challenges
- 9.6: Attitudes to energy and environmental issues are changing