



THE GEOGRAPHY DEPARTMENT- MANDALA



- ❖ Each unit studied has interleaving and spaced learning throughout.
- ❖ The earth is often studied at a Higher Education level by splitting it into the 6 areas of the Mandala; Biosphere, Atmosphere, Lithosphere, Hydrosphere, Anthropocene and Issues.
- ❖ Our SOW's and curriculum maps link all the 6 areas together- which are taught at each key stage.
- ❖ The common threads of sustainability, stewardship, humanity, equality, inter-relationships are interwoven in each topic and through the years as pupils progress.
- ❖ Each key stage is given a title- KS3- Global Adventurers; KS4- Global Explorers; KS5- Global Expeditioners.
- ❖ In delivering the units we adopt an explore element to pupils geography studies- encouraging pupils to have a thirst for wanting to know more about the world they live in and the role/ responsibility they have in that.

THE BIOSPHERE THE GLOBAL ECOSYSTEM.

The study of all living beings and their habitats.



Global Adventurers (KS3)

- ❖ **My Personal Geography**
- ❖ Local environment
- ❖ **Global Superpower**
- ❖ Forests of China and pandas.
- ❖ **Fragile Geography**
- ❖ Antarctica
- ❖ **Global Geography**
- ❖ The African Equatorial Rainforest, savanna and desert- climate, vegetation and animal adaptations.
- ❖ **Fragile Geography**
- ❖ The Brazilian Rainforest

Global Explorers (KS4)

- ❖ **Landscapes and Physical Processes-**
- ❖ Coastal environments- ecosystems- sand dunes and salt marshes.
- ❖ **Environmental challenges of cities and rural areas-** impacts to the countryside, greenfield locations and sustainable living.
- ❖ **Drainage basins-** the role of vegetation in flood prevention
- ❖ **Tectonic Landscapes and hazards-** environmental effects of eruptions and earthquakes.
- ❖ **Weather, climate and ecosystems;** whole unit with climate change; biomes, use of ecosystems.
- ❖ **Environmental challenges-** consumerism and eco tourism.

Global Expeditioners (KS5)

- ❖ **Changing Places-**
- ❖ Endogenous and exogenous factors of places/ physical geography of a place.
- ❖ **Hazards**
- ❖ The impacts of natural disasters on the local and global ecosystem.
- ❖ **Coasts-** coastal ecosystems.
- ❖ **Carbon and Water-** the role of these elements in the global ecosystem.
- ❖ **Urban Areas-** urban greening and sustainability.
- ❖ **Global Governance-** issues of Antarctica protection.

THE ATMOSPHERE

The study of the outer layer of the planet from the land surface extending into space.



Global Adventurers (KS3)

- ❖ **My Personal Geography**
- ❖ Local environment
- ❖ **Global Superpower**
- ❖ Forests of China and the impact of air pollution.
- ❖ **Geography Futures**
- ❖ Climate change; causes, effects and solutions.
- ❖ **Global Geography**
- ❖ African climates and role of the ITCZ.
- ❖ **Dangerous Geography**
- ❖ The causes, effects and management of tropical storms.
- ❖ **Global Issues**
- ❖ Fossil fuels and impact on the environment.

Global Explorers (KS4)

- ❖ **Landscapes and physical processes- coasts**
- ❖ The role of the atmosphere in wave formation and weathering.
- ❖ **The rural- urban continuum-** the impact of wind farms and the issues in rural areas.
- ❖ **Landscapes and physical processes- Rivers.**
- ❖ The water cycle and its role in river processes, features and flooding.
- ❖ **Tectonic Landscapes and hazards-** the impact of volcanic eruptions on the atmosphere.
- ❖ **Weather patterns and processes-** whole unit, with direct links to ecosystems and environmental challenges- climate change.

Global Expeditioners (KS5)

- Changing places-** its role in the climate and sense of place.
- Hazards-** impact of volcanic eruptions and tropical storms and wildfire unit.
- ❖ **Coasts-** link between the sea and atmosphere.
- ❖ **Carbon and Water-** the whole unit; the role of these elements and movement through the atmosphere.
- ❖ **Urban Areas-** problems in urban areas and effects to air quality.
- ❖ **Global Governance-** the global sharing of air space.

THE LITHOSPHERE



The study of the creation of the earth from the 'Big Bang' to current day position of all land and sea and the active tectonic processes resulting in volcanic eruptions and earthquakes.

Global Adventurers (KS3)

- ❖ **Dangerous Geography-** volcanoes and earthquakes
- ❖ **Global Geography-** African landscapes- relevant to some countries.

Global Explorers (KS4)

- ❖ **Landscapes and Physical Processes-** coasts and rivers effects of geology on the features and landforms.
- ❖ **Distinctive Landscapes-** origin of Britain, Tees-Exe Line divide between upland and lowland.
- ❖ **Tectonic Landscapes and Hazards-** whole unit.
- ❖ **Weather patterns, processes and ecosystems:**
- ❖ Drainage of water and effects of relief on climate, drought.

Global Expeditioners (KS5)

- ❖ **Hazards-** whole unit on plate tectonics, volcanoes and earthquakes.
- ❖ **Changing Places-** the geology and relief of a place- endogenous factor.
- ❖ **Coasts-** coastal geology.
- ❖ **Carbon and Water-** the relief of the land and its effects on carbon and water cycle.
- ❖ **Urban Areas-** the site of settlements and historical functions.
- ❖ **Global Governance-** the difference in natural resources across the globe.

THE HYDROSPHERE

The study of the global water cycle and the water bodies of the planet; seas, oceans, rivers, lakes and glaciers.



Global Adventurers (KS3)

- ❖ **My Personal Geography-** water pollution at local level.
- ❖ **Dangerous Geography-** the link between earthquake and tsunamis.
- ❖ **Global Superpower-** China- how deforestation is impacting on rivers causing flooding.
- ❖ **Geography Futures-** what is climate change and its links to the rising sea levels.
- ❖ **Fragile Geography-** Antarctica- what is an ice sheet and links to the oceans?.

Global Explorers (KS4)

- ❖ **Landscapes and physical processes-** coasts- whole unit on waves and their interaction with the land/ sea barrier.
- ❖ **Landscapes and Physical Process-** Rivers- whole unit.
- ❖ **Tectonic Landscapes and Hazards-** the creation of ocean basins and trenches at destructive plate boundaries.
- ❖ **Weather patterns and processes-** water unit, supply, regional variations, drought.
- ❖ **Processes and interaction within ecosystems-** role of water and the climate, soils, vegetation triangle. Coral reefs and sand dunes.

Global Expeditioners (KS5)

- ❖ **Changing Places-** role of physical geography in the creation of a place.
- ❖ **Hazards-** the creation of oceans and features in plate tectonics. Tsunamis, the role of warm oceans in tropical storms and supply of water for wildfire management.
- ❖ **Coasts-** processes in seas and oceans- whole unit link.
- ❖ **Carbon and Water-** the whole unit and water cycle analysis.
- ❖ **Urban Areas-** issues of water supply.
- ❖ **Global Governance-** issues of sea and ocean ownership.

THE ANTHROPOCENE

This is the study of the new name given to the 'Holocene' geological period we live in. It is the study of how humans have had such a significant impact on the planet and its natural systems.



Global Adventurers (KS3)

- ❖ **My Personal Geography**- carbon footprints, environmental survey.
- ❖ **Global Superpower**- China- impact of humans growth of industry on resources
- ❖ **Geography Futures**- whole unit- climate change, causes, effects and solutions.
- ❖ **Fragile Geography**- how our actions have a global impact in Antarctica.
- ❖ **Liverpool Fieldwork**- impact of humans on their local area- regeneration schemes.
- ❖ **Global Geography**- inequalities in quality of life, indigenous populations
- ❖ **Brazil, China**- effects of deforestation.

Global Explorers (KS4)

- ❖ **Landscapes and Physical Processes**- humans manage coastal systems.
- ❖ **Urban Issues in contrasting global cities**- the problems and solutions of megacities.
- ❖ **Rural- urban continuum in UK**-
- ❖ **Landscapes and physical processes**- humans managing flooding and causes
- ❖ **Measuring global inequalities**
- ❖ **Weather patterns and processes**- water supply and climate change.
- ❖ **Ecosystem and environmental challenges**- the whole unit.

Global Expeditioners (KS5)

- ❖ **Changing Places**- environmental issues and its impact of place perception over time.
- ❖ **Hazards**- human causes of natural diastases- topical storms and wildfires.
- ❖ **Coasts**- human conflicts with coastal areas.
- ❖ **Carbon and Water**- the human impacts to these natural cycles.
- ❖ **Urban Areas**- pressures created by increasing population in urban areas and rural depletion.
- ❖ **Global Governance**- issues of conflict in managing global resources across nations.

ISSUES- ESSENTIALLY THE PURPOSE OF STUDYING ALL UNITS



This is the study of the current issues affecting all who live on the planet; from climate change to habitat destruction, poverty and inequality.

Global Adventurers (KS3)

- ❖ **My Personal Geography-** introducing the idea of stewardship.
- ❖ **Global Superpower-** How china is Interdependent with the world.
- ❖ **Geography Futures-** whole unit- climate change, causes, effects and solutions.
- ❖ **Fragile Geography-** how our actions have a global impact in Antarctica.
- ❖ **Global Geography_ whole unit;** inequalities in quality of life, indigenous populations and the loss of a culture or commodification of a culture. The causes and effects of the gap between rich and poor.
- ❖ **Brazil-** effects of deforestation- nationally and globally.

Global Explorers (KS4)

- ❖ **Landscapes and Physical Processes-** the UK coastal regions at risk from erosion, sea level rise and flooding.
- ❖ **Urban Issues in contrasting global cities-** the increasing gap between poverty and wealth in cities.
- ❖ **Rural- urban continuum in UK-** political issues facing UK urban areas- what will the UK be in 10 years time? Increasing ageing population, loss of greenbelt, lack of housing.
- ❖ **Landscapes and physical processes-** Increasing river flood risk in the UK.
- ❖ **Measuring global inequalities-** analysis of why there is such a gap between poor and rich in countries and globally, including the role of trade and MNC's.
- ❖ **Weather patterns and processes-** the inequalities in water supply and the threats to people- drought.
- ❖ **Ecosystem and environmental challenges-** the loss of species and 'lungs of with world' with consumerism.

Global Expeditioners (KS5)

- ❖ **Changing Places-** how agents of change have impacted on place perception.
- ❖ **Hazards-** why are places become more at risk of natural disasters and is there a common approach to management?
- ❖ **Coasts-** Increasing hazards of living on the coast.
- ❖ **Carbon and Water-** the changes to these cycles and future concerns and impacts on the planer.
- ❖ **Urban Areas-** managing current and future pressures in urban areas.
- ❖ **Global Governance-** how conflicts arise from an unequal power struggle of resources , trade and nations.