

YEAR 5

GEOGRAPHY CURRICULUM

Year 5 Geography - Broader Curriculum Aims and Objectives

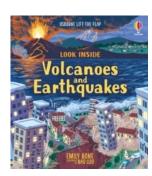
Topics of Study

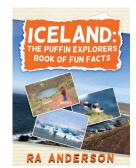
- Local Area Study– What can maps tells us about our town and locality?
- The Wider World-Europe-Physical Features: Earthquakes and volcanoes: study of region of Iceland.

Vocabulary

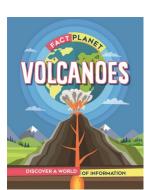
Fossil fuels, land use, farming, energy, water, natural resources, renewable/non-renewable, sustainable, nuclear, climate, erosion, ice field, tectonic plates, peak, height, contour, range, summit, plateau, hemisphere, equator, mantle, outer core, inner core, magma, active dormant, extinct, epicentre, shock wave, magnitude, tsunami, Richter scale.

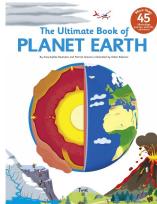
Quality Literature Links











Key Geographical Knowledge and Understanding

- ⇒ Know that Ordnance survey is Britain's mapping agency.
- ⇒ Know that it uses different shapes, colours and symbols to show roads, buildings, rivers and other features of a landscape.
- ⇒ Know that landscape features and places (both human and physical) can be located on an Ordnance survey map through the use of grid references and grid squares.
- ⇒ Know that grid references can be made even more specific by adding an extra digit to both the Easting and Northing numbers. These are called six-figure grid references.
- ⇒ Know that the Earth is made up of different layers: the **core** at the centre, which is mainly metal the **mantle**, which is mainly rock the **crust**, which is the part we can see.
- ⇒ Know that the crust (together with the upper layer of the mantle) is made up of different pieces, called **tectonic plates** and that they move a few centimetres each year in different directions and different speeds.
- ⇒ Know that earthquakes are caused when the Earth's tectonic plates slide together or move apart creating friction and causing energy to build up. It becomes so great that the energy is released causing a shock wave-an earthquake.
- ⇒ Know that a volcano is an opening in the Earth's crust that allows magma, hot ashes and gases to escape.
- ⇒ Know that most volcanic eruptions are caused by tectonic plates moving towards each other.
- ⇒ Know where the most active earthquake and volcanic areas are within the wider world and specifically within Europe.
- ⇒ Know that lines of latitude and longitude help to create a coordinate to locate a place accurately.
- Know that numbers and letters are used to create this coordinate and that within the coordinate, the ° stands for degrees and the ' stands for minutes.
- ⇒ Know that the letters relate to north, south, east or west and are shown as capitals.
- ⇒ Know that the latitude coordinate is always given first.
- ⇒ Know and describe the effects of earthquakes and volcanic eruptions within European countries studied e.g. Iceland.
- ⇒ Give some reasons why people chose to live in earthquake zones and close to active volcanoes.
- \Rightarrow Explain how human and physical features are impacted in active volcanic areas.
- ⇒ Know the benefits of volcanic eruptions on the economy of a country due to tourism and fertile land for farming.

PRIOR LEARNING LINKS

Y4 Local Area Study: Rivers and the River Tees: know the different places that the River Tees flows through.
Know the different uses of rivers.



Year 5 Geography

What do maps tells us about our town?

Teaching Sequence for this Unit.

FUTURE LEARNING LINKS

Y6 Local Area Study: Our Coast: learn about the physical and human features of coastal areas. Learn about the coastal areas near to Middlesbrough and how they are used. Learn about Middlesbrough's Freeport in order to link in with their next topic on trade.

What are the basic features of an Ordnance Survey map?

How do we identify and plot six-figure grid references using them?

What places and features within our town can be located using grid references and grid squares?

IS CAI

How and why is a compass used to navigate and locate?

How do we plot a short route and mark it on an OS map of our town?

is cai ed

DISCPLINARY KNOWLEDGE AND GEOGRAPHICAL ENQUIRY: How we 'work' and 'think' like a Geographer. COLLECTION. **ANALYSING AND EVALUATING AND INTERPRETING SOURCES ENQUIRY ANALYSING AND** COMMUNICATING **DEBATING INTERPRETING** Analysing and Interpreting sources such communicating Collecting, analysing and Critically evaluating and Asking Geographicalas maps, diagrams, aeographical information interpreting data through debating the impact of globes, aerial photographs enquiry questions. e.g. constructing maps, fieldwork. geographical processes. etc. charts and graphs or writing at lenath.

PRIOR LEARNING LINKS-Y3 North America and its Mountainous West: learnt about mountains and how they are formed. Learnt about different mountain ranges and the plant and animal species living within the Rocky Mountains. Y4 Wider World: South America and its River and Rainforest. Learnt more about lines of latitude and longitude. Learnt about the human and physical features of the Amazon Rainforest. Debated if more

can be done to prevent the threat to



Year 5 Geography

What eruptions occur in Europe and why?

Teaching Sequence for this Unit.

FUTURE LEARNING LINKS

Y6 Trade: Know the significance of coastal areas, docks and harbours for trade. Name and locate relevant countries around the world and major cities that the UK trades with. Know that within Europe, the UK has strong trade links with Germany, The Netherlands and France, as well as others. Know and explain the global supply chain and the threat that aspects of this can have on the environment.

What is inside the Earth and what causes Earthquakes?

the rainforest.

What are volcanoes?

How are they different to other mountains?

IS AC

Can we interpret data to identify the world's most volcanic places?

Can we use lines of latitude and longitude to locate these places using coordinates?

IS CAI

Which countries in Europe have the most active volcanoes?

CAI

impacted the country's geographical

Why are volcanoes a

fact of life for

Iceland?

How does has this

features?

AC

What happened on the

What was the settlement like on Heimay before the major volcanic eruption in 1973?

How did the eruption change the lives of people and impact the economy?

AC

Why do people still choose to live in eruptive areas?

https://youtu.be/xyvRoSb8CO0

S AC

Icelandic Island of

Heimay?

Why did the Eldfell eruption rock the nation?

IS AC

ED AC

Year 5 Sequence of Knowledge Key Knowledge and Vocabulary: Local Areas: Mapping our town and locality. * Ordnance Survey maps are covered in blue * Cardinal points on a compass are North, * Four-figure/Six-figure grid references * Ordnance survey uses different shapes. East, South, and West. lines that make up a arid. The lines have colours and symbols to show roads, and compass points can be used to numbers accompanying them that allow you buildings, rivers and other features of a * Half way between the four main compass plan a route using a map. to accurately pinpoint location on a map. points, there are four other points: northeast, Landmarks can be identified along the landscape. This series of numbers is known as a grid south-east, south-west and northwest. These * Landscape features and places (both route using four/six-figure grid reference. The numbers going across the are called Ordinal points. This makes an eight references. human and physical) can be located on face of the map are called eastinas: the -point compass. * The direction of travel between each an Ordnance survey map through the use numbers going up the face of the map from * Ordnance Survey maps are always printed of grid references and grid squares. point can be recorded using compass bottom to top are called northings. so that north is at the top of the map. directions. The 'Eastings' and 'Northings' are the * Grid references can be made even more * OS maps allow you to accurately plan numbers around the edge of an OS map. specific by adding an extra digit to both the a journey, giving an indication of To pinpoint a place you take the Eastings Easting and Northing numbers. These are landmarks and features you will pass number first, then the Northing. called six-figure grid references. along the route, as well as how far you will be travellina. Landscape, features, pinpoint, human, Compass, cardinal, ordinal, points, direction, Route, identify, direction, accurately, Feature, landscape, series, accompanying, physical, place, location. specific, reference. position, navigation. precisely, location, place. Key Knowledge and Vocabulary: Eruptions in Europe *Earth is made up of * A volcano is an * Numerical data is *Iceland sits on top of * The island of * Despite the * Maps can be used * The Heimaev different layers; the opening in the continually collect to identify inactive the Mid-Atlantic eruption in 1973 was Heimay is one of the devastating impact crust (together with Earth's crust that to monitor volcanic Ridge, a long crack and active a significant event largest of Iceland's of the eruption, the upper layer of activity around the allows magma, hot in the ocean floor volcanoes within a in Iceland's history. volcanic islands. many of the the mantle) is made ashes and gases to world. caused by the country. residents chose to * The eruption * It had risen from the up of different pieces escape. separation of the * Lines of latitude and * Lines of latitude and return and rebuild surprised the sea through several called tectonic North American and * Most volcanic longitude help to lonaitude help to their homes and inhabitants of eruptions. plates. Eurasian tectonic eruptions are create a create a community. Heimaey, as there *Tectonic plates * A small fishina plates. caused by tectonic coordinate to coordinate to move a few were no sians of * The harbour was village had *The level of volcanic plates moving locate a place locate a place centimetres each imminent volcanic vital to the island's developed on the towards each other. activity has accurately. accurately. vear in different activity before the economy so during southern side of the * Both volcanoes and * Numbers and letters impacted the directions and at * Numbers and letters eruption. this time, the harbour. physical and human earthauakes occur are used to create different speeds. are used to create residents * It lasted for nearly 6 characteristics of the The surrounding due to movement this coordinate. *Earthauakes are this coordinate. developed a months and resulted country. seas are excellent of the Earth's * Within the caused when the * Within the network of pipes to in the entire island *Physical features Earth's tectonic tectonic plates. fishing areas. coordinate, the ° coordinate, the ° spray tonnes of being evacuated. include, plates slide together * They are both stands for degrees stands for degrees seawater onto the mountainous or move apart and the 'stands for caused by the heat and the 'stands for lava, in order to creating friction and landscapes, black and energy minutes. minutes. causing energy to preserve it. lava fields and releasing from the * The letters relate to * The letters relate to build up. geothermal pools. * The alobal Farth's core. north, south, east or north, south, east or

* Human features

the economy as

reliant on tourism

than farmina

practices.

include, changes to

they are now more

awareness of the

visitors to the island.

have made a living

Impact, resident.

awareness, network

impact of this

brought many

which residents.

eruption has

from.

Surrounding, risen,

volcanic.

Significant, imminent, Crust, layer, released. Erupt. occur. Monitor, coordinate. Active, inactive, Ridge, geothermal. releasing, trigger. accurately. inhabitants, entire. economy.

west and are shown

always given first.

as capitals.

* The latitude is

west and are shown

always given first.

as capitals.

* The latitude is

*This becomes so

energy is released

great that the

shockwave-an

earthauake.

causing a

* Earthauakes can

trigger volcanic

eruptions through

severe movement

of tectonic plates.