

Area of study

Your child will ... (Knowledge)

Your child will be able to... (Skills)

Unit 3:
Environmental
Challenges of
the UK

Year 1 Term
1 and 2

- How air masses, the North Atlantic Drift and continentality influence the weather in the UK.
- How air masses cause extreme weather conditions in the UK
- **Case study of one UK flood event caused by extreme weather conditions**
- Overview of how environments and ecosystems in the UK are used and modified by humans.
- Identification of renewable and non-renewable energy sources.
- The contribution of renewable and non-renewable sources to energy supply in the UK.
- Changing patterns of energy supply and demand in the UK
- Strategies for sustainable use of energy at local and UK national scales..
- The development of renewable energy in the UK and the impacts on people and the environment.
- The extent to which non-renewable energy could and should contribute to the UK's future energy supply.
- Economic, political and environmental factors affecting UK energy supply in the future.

- understand and correctly use proportion, ratio, magnitude and frequency
- understand and correctly use appropriate measures of central tendency, spread and cumulative frequency including, median, mean, range, quartiles and inter-quartile range, mode and modal class
- calculate and understand percentages (increase and decrease) and percentiles
- design fieldwork data collection sheets and collect data with an understanding of accuracy, sample size and procedures, control groups and reliability
- interpret tables of data
- describe relationships in bivariate data
- sketch trend lines through scatter plots
- draw estimated lines of best fit
- make predictions; interpolate and extrapolate trends from data
- be able to identify weaknesses in statistical presentations of data
- draw and justify conclusions from numerical and statistical data.

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Unit 2:
People of
the UK

Year 1 Term
2 and 3

- An understanding of the UK's geographical diversity through various patterns
- The causes of uneven development within the UK
- **Case study of the consequences of economic growth and/or decline for one place or region in the UK.**
- Overview of the UK's current major trading partners to include principal exports and imports.
- Changes in the UK's population structure from 1900 to the present day.
- An understanding of the causes and the effects of, and responses to an ageing population.
- Outline flows of immigration into the UK in the 21st century including an overview of the social and economic impacts on the UK.
- Overview of the causes and consequences for contrasting urban trends in the UK
- **Case study of one major city in the UK**

Graphical skills

You should be able to:

- select, adapt and construct appropriate graphs and charts, using appropriate scales and annotations
- effectively present and communicate data through graphs and charts
- extract, interpret, analyse and evaluate information

Graphs and charts to be studied

Bar graphs (horizontal, vertical and divided), histograms (with equal class interval), line graphs, scatter graphs (including best fit line), dispersion graphs, pie charts, climate graphs, proportional symbols, pictograms, cross-sections, population pyramids, radial graphs, rose charts

Numerical and Statistical skills

You should be able to:

- demonstrate an understanding of number, area and scale
- demonstrate an understanding of the quantitative relationships between units

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Unit 1:
Landscapes
of the UK

Year 1
Term 4

- Overview of the distribution of areas of upland, lowland and glaciated landscapes.
- Overview of the distinctive characteristics of these landscapes including their geology, climate and human activity.
- The definitions of the main geomorphic processes including types of weathering, mass movement, erosion, transport and deposition.
- The formation of river landforms.
- The formation of coastal landforms.
- **Two case studies, one UK river basin and one UK coastal landscape**, to cover:
 - the geomorphic processes operating at different scales and how they are influenced by geology and climate, landforms and features associated with your case study
 - how human activity, including management, works in combination with geomorphic processes to impact the landscape.

Cartographic skills

You should be able to:

- select, adapt and construct maps, using appropriate scales and annotations
- interpret cross-sections and transects
- use and understand coordinates, scale and distance
- extract, interpret, analyse and evaluate information
- use and understand gradient, contour and spot height (on OS and other isoline maps)
- describe, interpret and analyse geo-spatial data presented in a GIS framework.

Maps to be studied

Atlas maps, OS maps (1:50 000 and 1:25 000 scales), base maps, choropleth maps, isoline maps, flow line maps, desire-line maps, sphere of influence maps, thematic maps, route maps, sketch maps

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Paper 3

Fieldwork
Skills

Year 1 Term 5
and 6

Fieldwork Skills

Fieldwork skills are taught both discreetly at set points throughout the two year course and are also woven into knowledge contained throughout the course.

- Section A focuses on geographical skills and synoptic assessment of material from either or both of the first two components (Paper 1 and Paper 2)
- Section B will feature questions relating to the assessment of fieldwork both in relation to the learners own experiences of fieldwork and unfamiliar contexts. Students will conduct two separate Fieldwork enquiries, one urban and one rural/coastal. Students will learn how to formulate a hypothesis, derive key questions, design data collection instruments, collect primary data and conduct fieldwork out of the classroom, analyse their data, draw conclusions and evaluate their work

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Unit 5:
Environmental
Threats to the
Planet

Year 2
Term 1

- Overview of how the climate has changed
- Key periods of warming and cooling
- Evidence for climate change over different time periods
- Theories of natural causes of climate change
- How human activity is responsible for the enhanced greenhouse effect which contributes to global warming.
- Summary of a range of consequences of climate change currently being experienced across the planet.
- Distribution of the main climatic regions of the world.
- Outline how the global circulation of the atmosphere is controlled by the movement of air between the poles and the equator.
- How the global circulation of the atmosphere leads to extreme weather conditions
- The distribution and frequency of tropical storms and drought.
- **Case study of one drought event caused by El Niño/La Niña:**

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Numerical and Statistical skills

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Unit 4:
Ecosystems of
the Planet

Year 2
Term 2

- Ecosystems include abiotic and biotic components which are interdependent.
- Overview of the global distribution of polar regions, coral reefs, grasslands, temperate forests, tropical rainforests, and hot deserts.
- Overview of the climate, plants and animals within these ecosystems.
- The location of the tropical rainforests and coral reefs
- The processes that operate within tropical rainforests, including nutrient and water cycles.
- The process of nutrient cycling that operates within coral reefs.
- **Two case studies, including one tropical rainforest and one coral reef**, to cover:
 - the interdependence of climate, soil, water, plants, animals and humans
 - their value to humans and to the planet
 - threats to biodiversity and attempts to mitigate these through sustainable use and management.

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Unit 5: People of the Planet

Year 2
Term 3

- Social, economic and environmental definitions of development
- Different development indicators, and the advantages and disadvantages of these indicators.
- Current patterns of advanced countries (ACs), emerging and developing countries (EDCs) and low-income developing countries (LIDCs).
- Outline the reasons for uneven development, including the impact of colonialism on trade and the exploitation of natural resources.
- Different types of aid and their role in both promoting and hindering development.
- **Case study of one LIDC or EDC.**
- Definition of city, megacity and world city.
- The distribution of megacities and how this has changed over time.
- How urban growth rates vary in parts of the world with contrasting levels of development.
- Overview of the causes and consequences of rapid urbanisation in LIDCs
- **Case study of one major city in an LIDC or EDC**

Maps to be studied

Atlas maps, OS maps (1:50 000 and 1:25 000 scales), base maps, choropleth maps, isoline maps, flow line maps, desire-line maps, sphere of influence maps, thematic maps, route maps, sketch maps