



Geography KS4 Academic Learning Journey

Y10 Skills

Topic 4:

- Photograph analysis of common glacial, fluvial and coastal landscapes and features
- Using simple geological cross-sections to show the relationship between geology and relief
- Locating key physical features (uplands, lowland basins, rivers) on outline UK maps
- Recognition of physical and human geography features on 1:25000 and 1:50000 OS maps.
- Explore the kinds of questions capable of being investigated through fieldwork
- Calculation of mean rates of erosion using a multi-year data set
- Use of BGS Geology maps (paper or online) to link coastal form to geology
- Recognition of coastal landforms on 1:25000 and 1:50000 OS maps.
- Explore the kinds of questions that can be investigated through fieldwork
- Use of 1:25000 and 1:50000 OS maps, and GIS, to investigate what is threatened by rapid erosion
- Use of simple cost-benefit analysis to investigate coastal defence option
- Use of 1:25000 and 1:50000 OS maps, and GIS, to investigate the impact of policy decisions
- Explore the kinds of questions that can be investigated through fieldwork
- Use 1:25000 and 1:50000 OS maps to determine valley cross-section from contour lines
- Use of BGS Geology maps (paper or online) to link river-long profiles to geology
- Recognition of river landforms on 1:25000 and 1:50000 OS maps
- Drawing simple storm hydrographs using rainfall and discharge data.
- Explore the kinds of questions that can be investigated through fieldwork
- Use of simple cost-benefit analysis to investigate river management options
- Use of 1:25000 and 1:50000 OS maps, and GIS, to investigate the impact of policy decisions.

Topic 5:

- Use and interpretation of UK population pyramids from different time periods
- Use of census data sets to understand changes to the UK's population
- Use of Eurostat to investigate FDI and immigration to the UK.
- Explore the kinds of questions capable of being investigated through fieldwork.
- Using census data sets to compare areas within inner cities.
- Use of 1:25000 and 1:50000 OS maps to identify different land use types.
- Using crime and IMD databases to investigate the extent of inner-city problems

Topic 6:

- Identify questions or issues for investigation, develop a hypothesis and/or key questions
- Consider appropriate sampling procedures (systematic vs random vs stratified) and sample size
- Consider health and safety and undertake risk assessment
- Select data collection methods and equipment to ensure accuracy and reliability, develop recording sheets for measurements and observation
- Use of ICT to manage, collate, process and present information, use of hand-drawn graphical skills to present information in a suitable way
- Write descriptively, analytically and critically about findings



- Develop extended written arguments, drawing well evidenced and informed conclusions about geographical questions and issues.

Y10 Knowledge

Topic 4:

- 4.1: Geology and past processes have influenced the physical landscape of the UK
- 4.2: A number of physical and human processes work together to create distinct UK landscapes
- 4.3: Distinctive coastal landscapes are influenced by geology interacting with physical processes
- 4.4: Distinctive coastal landscapes are modified by human activity interacting with physical processes
- 4.5: The interaction of human and physical processes present challenges along coastlines and there are a variety of management options
- 4.6: Distinctive river landscapes have different characteristics formed by interacting physical processes
- 4.7: River landscapes are influenced by human activity interacting with physical processes
- 4.8: Some rivers are more prone to flood than others and there is a variety of river management options

Topic 5:

- 5.1: Population, economic activities and settlements are key elements of the human landscape
- 5.2: The UK economy and society is increasingly linked and shaped by the wider world
- 5.3: The context of the city influences its functions and structure
- 5.4: The city changes through employment, services and the movement of people
- 5.5: The changing city creates challenges and opportunities
- 5.6: Ways of life in the city can be improved by different strategies
- 5.7: The city is interdependent with rural areas, leading to changes in rural areas
- 5.8: The changing rural area creates challenges and opportunities

Topic 6

- Formulating enquiry questions
- Selecting fieldwork methods
- Secondary data sources

Y11 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.

Y11 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