TOPIC Key Idea	Links to KS3 / other
Detailed content including key words, [Suggested Skills]	GCSE content
Assessments (Mock + in class) How the curriculum is made relevant to students in and around Maryport	/other subjects
START OF YEAR 10. Unit timings: (91/2 weeks) Unit 1: HT1 to 1/2 HT2 (sept / oct / mid nov)	Revise on rivers
UNIT 1: THE CHANGING LANDSCAPES OF THE UK	fieldwork location -
BROAD OVERVIEW OF THE UK'S PHYSICAL LANDSCAPE:	Honister
Include a focus on West Cumbria rocks and landscapes – Lake District upland landscape + West Cumbria Iowland landscape	
1.1 There are geological variations within the UK:	
a. Characteristics and distribution of the UK's main rock types: sedimentary (chalk, sandstone) igneous (basalt, granite), metamorphic (schists, slates). [Geological maps]	
b. The role of geology and past tectonic processes in the development of upland (igneous and metamorphic rocks) and lowland (sedimentary rocks) landscapes. [Using simple geological cross sections to show the relationship between geology and relief]	
1.2 A number of physical and human processes work together to create distinct UK landscapes	
a. How distinctive upland and lowland landscapes result from the interaction of physical processes (glacial erosion and deposition , weathering and climatological , post-glacial river and slope processes). [Locating key physical features (uplands, lowland basins , rivers) on outline UK maps]	
b. How distinctive landscapes result from human activity (agriculture, forestry, settlement) over time. [Recognition of physical and human geography features on 1:25000 and 1:50000 OS maps]	
OPTION 1 COASTAL LANDSCAPES AND PROCESSES:	
Include links to West Cumbria coastline e.g. St Bee's head; Grune point spit and coastal defences.	
1.3 A variety of physical processes interact to shape coastal landscapes	
a. The physical processes at work on the coast: weathering (mechanical, chemical, biological), mass movement (sliding and slumping), erosion (abrasion, hydraulic action, attrition and solution), transportation (traction, saltation, suspension, solution and longshore drift) and deposition.	
b. Influence of geological structure (concordant/discordant, joints and faults), rock type (hard/soft rock) and wave action (destructive and constructive waves) on landforms. [Use of BGS Geology maps (paper or online) to link coastal form to geology]	
c. How the UK's weather and climate (seasonality, storm frequency, storm surge and prevailing winds) affect rates of coastal erosion and retreat, and impact on landforms and landscape. [Using UK weather and climate data and calculation of mean rates of erosion using a multi-year data set]	
1.4 Coastal erosion and deposition create distinctive landforms within the coastal landscape	
a. The role of erosional processes in the development of landforms: headlands and bays, caves, arches, cliffs, stacks, wave cut platforms. [Recognition of coastal landforms on 1:25000 and 1:50000 OS maps]	
b. The role of depositional processes in the development of landforms: bars, beaches and spits. [as above]	
Suggested in class practice of 'examine' 8 mark question using a figure and then later in class mini assessment using another 8 mark question and figure.	
1.5 Human activities can lead to changes in coastal landscapes which affect people and the environment	
a. How human activities (urbanisation, agriculture and industry) have affected landscapes and the effects of coastal recession and flooding on people and the environment. [Use of 1:25000 and 1:50000 OS maps, and GIS, to investigate the impact of human intervention]	
b. The advantages and disadvantages of different coastal defences used on the coastline of the UK (hard engineering, sea walls, groynes and rip rap and soft engineering, beach nourishment and managed retreat and how they can lead to change in coastal landscapes. [as above]	
1.6 <u>located example:</u> Distinctive coastal landscapes are the outcome of the interaction between physical and human processes	
a. The significance of the location of one named distinctive coastal landscape within the UK (discordant, concordant, coastline of deposition, coastal retreat) including how it has been formed and the most influential factors in its change. [Recognition of coastal landforms on 1:25000 and 1:50000 OS maps]	
OPTION 2 RIVER LANDSCAPES AND PROCESSES:	
Include links to River Ehen e.g. playing fields on flood plain and land use zoning.	

1.7 A variety of physical processes interact to shape river landscapes	
a. The physical processes at work in the river landscape: weathering (mechanical, chemical and biological), mass	
movement (sliding and slumping), erosion (abrasion, hydraulic action, attrition and solution), transport (traction, saltation, suspension and solution) and deposition.	
b. How river landscapes contrast between the upper courses, mid courses and lower courses of rivers and why channel shape (width, depth), valley profile, gradient, discharge, velocity and sediment size and shape change along the course of a named UK river. [Use of BGS Geology maps (paper or online) to link river long profiles to geology]	
c. How the UK's weather (short-term events such as storms and droughts) and climate affect river processes and impact on landforms and landscapes. [Using UK weather and climate data]	
1.8 Erosion and deposition interacting with geology create distinctive landforms in river landscapes	
a. The role of erosion processes and the influence of geology in the development of landforms: interlocking spurs, waterfalls, gorges and river cliffs. [Recognition of river landforms on 1:25000 and 1:50000 OS maps]	
b. The role of depositional processes in the formation of flood plains, levees and point bars.	
c. The interaction of deposition and erosion processes in the development of landforms (meanders, oxbow lakes).	
1.9 Human activities can lead to changes in river landscapes which affect people and the environment	
a. How human activities and changes in land use (urbanisation , agriculture and industry) have affected river processes that impact on river landscapes; the physical and human causes and effects of river flooding. [Drawing simple storm hydrographs using rainfall and discharge data]	
 b. Advantages and disadvantages of different defences used on UK rivers (hard engineering– dams, reservoirs and channelisation and soft engineering– flood plain zoning and washlands) and how they can lead to change in river landscapes. [Use of 1:25000 and 1:50000 OS maps, and GIS, to investigate the impact of human intervention] 	
1.10 <u>Located Example</u> : Distinctive River landscapes are the outcome of the interaction between physical and human processes	
a. The significance of the location of one named distinctive UK river landscape (upland/lowland), how it has been formed and the most influential factors in its change.	
YEAR 10. Unit timings: (9½ weeks) Unit 2: ½ HT2 + HT3 (mid nov to term 2 half term)	
.UNIT 2: CHANGING CITIES	
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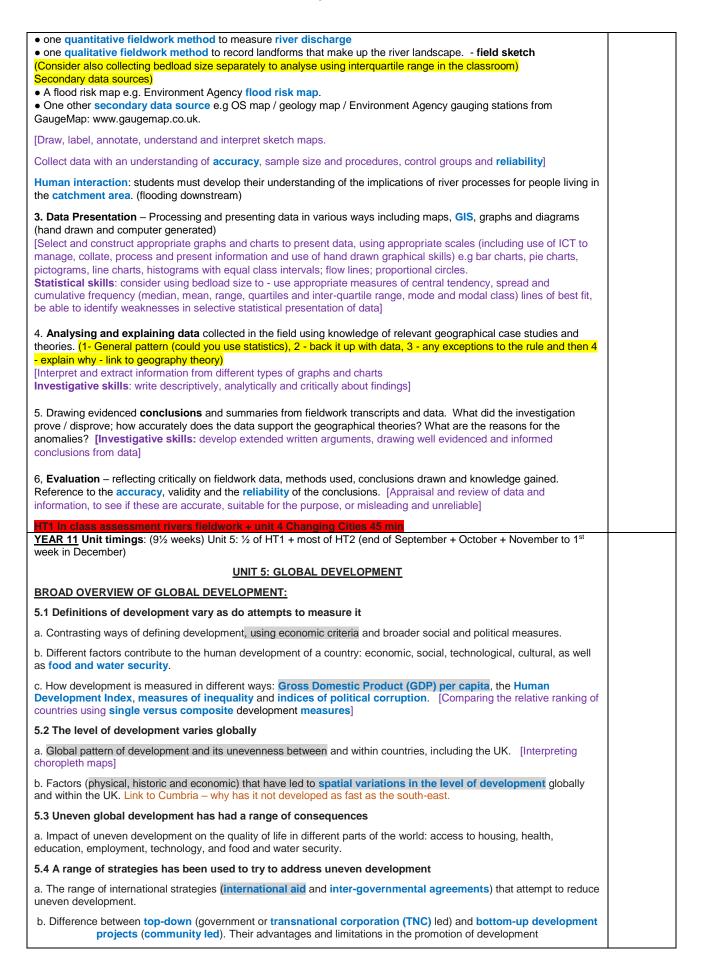
contentious subject in the local area.

4.5 Globalisation and economic change create challenges for the chosen UK city that require long-term solutions	
a. Key population characteristics of the chosen UK city's that is available from the Census and reasons for population growth or decline. [Using Census output area data for 2011]	
b. Causes of deindustrialisation (globalisation, de-centralisation , technological advances and developments in transport) and impacts on the chosen UK city.	
c. How economic change is increasing inequality in the city and the differences in quality of life.	
d. Recent changes in retailing and their impact on the chosen UK city: decline in the Central Business District (CBD), growth of edge- and out-of-town shopping and increasing popularity of internet shopping).	
e. The range of possible strategies aimed at making urban living more sustainable and improving quality of life (recycling, employment, education, health, transport, affordable and energy-efficient housing) for the chosen UK city. [Calculating the ecological footprint of people in the city, and comparing it to other locations]	
CASE STUDY OF A MAJOR CITY IN A DEVELOPING COUNTRY OR AN EMERGING COUNTRY	
4.6 The context of the chosen developing country or emerging country city influences its functions and structure	
a. Site, situation and connectivity of the chosen city in a national (cultural and environmental), regional and global context.	
b. The chosen city's structure (Central Business District (CBD), inner city, suburbs, urban-rural fringe) in terms of its functions and building age.	
4.7 The character of the chosen developing country or emerging country city is influenced by its fast rate of growth	
a. Reasons for past and present trends in population growth (rates of natural increase, national and international migration, economic investment and growth). [Use and interpretation of line graphs and calculating of rate of change/annual or decadal percentage growth]	
b. Causes of national and international migration and the impact on different parts of the chosen city (age structure, ethnicity, housing, services). [Using GIS/satellite images, historic images and maps to investigate spatial growth]	
c. How the growth of the chosen city is accompanied by increasing inequality (areas of extreme wealth versus poverty) and reasons for differences in quality of life.	
4.8 Rapid growth, within the chosen developing country or emerging country city, results in a number of challenges that need to be managed	
a. Effects resulting from the chosen city's rapid urbanisation: housing shortages, squatter settlements, under- employment employment, pollution and inadequate services. [Using quantitative and qualitative information to judge the scale of variations in quality of life]	
b. Advantages and disadvantages of both bottom-up and top-down approaches to solving the chosen city's problems and improving the quality of life or its people.	
c. The role of government policies in improving the quality of life (social, economic and environmental) within the chosen city.	
in class mock end of HT3, 45 marks, unit 1 + most of unit 2	
YEAR 10. Unit timings: (9½ weeks) Unit 3: HT4 + ½HT5 (Term 2 half term to mid may term 3)	
UNIT 3: WEATHER HAZARDS AND CLIMATE CHANGE	
BROAD OVERVIEW OF WEATHER AND CLIMATE CHANGE:	
2.1 The atmosphere operates as a global system transferring heat and energy	
a. The features of the global atmospheric circulation.	
b. How circulation cells and ocean currents transfer and redistribute heat energy across the Earth.	
2.2 The global climate was different in the past and continues to change due to natural causes	
a. How climate has changed in the past over different time scales: glacial and interglacial periods during the Quaternary period.	
b. Causes (Milankovitch cycles, solar variation, volcanism) and evidence (ice cores, pollen records, tree rings, historical sources) for natural climate change.	
2.3 Global climate is now changing as a result of human activity	
a. How human activities (industry, transport, energy, farming) produce greenhouse gases (carbon dioxide, methane) that cause the enhanced greenhouse effect .	

b. Negative effects that climate change is having on the environment and people (changing patterns of crop yield , rising sea levels and retreating glaciers).	
2.4 The UK has a distinct climate which has changed over time	
a. Climate of the UK today and changes over the last 1000 years. [Use and interpretation of line graphs/bar charts showing climate change]	
b. Spatial variations in temperature, prevailing wind and rainfall within the UK.	
c. The significance of the UK's geographic location in relation to its climate.	
Link to West Cumbria – why does it rain so much here?	
TROPICAL CYCLONES	
2.5 Tropical cyclones are extreme weather events that develop under specific conditions and in certain locations	
a. How the global circulation of the atmosphere leads to tropical cyclones (hurricanes and typhoons) in source areas and the sequence of their formation. [Use of GIS to track the movement of tropical cyclones]	
b. Characteristics, frequency and geographical distribution of tropical cyclones and how these change over time.	
2.6 There are various impacts of and responses to natural hazards caused by tropical cyclones depending on a country's level of development	
a. Reasons why tropical cyclones are natural weather hazards (high winds, intense rainfall, storm surges, coastal flooding and landslides). [Use of weather and storm surge data to calculate Saffir-Simpson Scale / magnitude]	
b. <u>Located examples</u> : Different social, economic and environmental impacts that tropical cyclones can have on a named developed and a named emerging or developing country. [Use of social media source, satellite images and socio-economic data to assess impact]	
c. Located examples: Different responses to tropical cyclones of individuals, organisations and governments in a named developed and a named emerging or developing country. [as above]	
DROUGHT	
2.7 The causes of drought are complex with some locations more vulnerable than others	
a. Characteristics of arid environments compared to the extreme weather conditions associated with drought.	
b. Different causes of the weather hazard of drought: meteorological, hydrological, and human (agricultural, dam building, deforestation).	
c. Why the global circulation makes some locations more vulnerable to drought as a natural hazard than others and how this changes over time. [Use and interpretation of graphs showing medium term rainfall trends]	
2.8 The impacts of, and responses to drought vary depending on a country's level of development	
a. Reasons why droughts are hazardous.	
b. Located Examples: How the impacts of drought on people and ecosystems can vary for a named developed and a named emerging or developing country [Use and interpretation of socio-economic data]	
c. Located Examples: Different responses to drought from individuals, organisations and governments in a named developed and a named emerging or developing country.	
YEAR 10 Unit timings: (91/2 weeks) Unit 4: 1/2 of HT5 + HT6 (Mid may to end of term 3)	
UNIT 4: ECOSYSTEMS, BIODIVERSITY AND MANAGEMENT	
BROAD OVERVIEW OF ECOSYSTEMS:	
3.1 Large-scale ecosystems are found in different parts of the world and are important	
a. Distributions and characteristics of the world's large-scale ecosystems (tropical, temperate and boreal forests, tropical and temperate grasslands, deserts and tundra). [Use of world maps to show the location of global biomes]	
b. The role of climate and local factors (soils and altitude) in influencing the distribution of different large-scale ecosystems. [Comparing climate graphs for different biomes]	
3.2 The biosphere is a vital system	
a. How the biosphere provides resources for people (food, medicine, building materials and fuel resources) but is also increasingly exploited commercially for energy, water and mineral resources .	
3.3 The UK has its own variety of distinctive ecosystems that it relies on	
a. Distribution and characteristics of the UK's main terrestrial ecosystems (moorlands, heaths, woodlands, wetlands). [Interpret GIS maps]	
b. Importance of marine ecosystems to the UK as a resource and how human activities are degrading them.	
TROPICAL RAINFORESTS	

3.4 Tropical rainforests show a range of distinguishing features	
a. Biotic and abiotic characteristics of the tropical rainforest ecosystem (climate, soils, water, plants, animals and humans).	
b. The interdependence of biotic and abiotic characteristics (climate, soils, water, plants, animals and humans) and the nutrient cycle (Gersmehl model). [Use and interpretation of nutrient cycle diagrams and food webs diagrams]	
c. Why rainforests have very high biodiversity and how plants (stratified layers, buttress roots, drip tips) and animals (strong limbs, modified wings and beaks, camouflage) are adapted to that environment.	
3.5 Tropical rainforest ecosystems provide a range of goods and services some of which are under threat	
a. Examples of goods and services provided by tropical rainforest ecosystems (food stuffs, medicines, timber and recreation).	
b. How climate change presents a threat to the structure, functioning and biodiversity of tropical rainforests.	
c. Economic and social causes of deforestation (conversion to agriculture, resource extraction, population pressure). [Use and interpretation of line graphs showing the range of future global population projections, and population in relation to likely available resource]	
d. Located Example: Political and economic factors (governance, commodity value and ecotourism) that have contributed to the sustainable management of a rainforest in a named region.	
DECIDUOUS WOODLANDS	
3.6 Deciduous woodlands show a range of distinguishing features	
a. Abiotic and biotic characteristics of the deciduous woodland ecosystem (climate, soil, water, plants, animals and humans).	
b. The interdependence of biotic and abiotic characteristics (climate, soil, water, plants, animals and humans) and the nutrient cycle (Gersmehl model) (food web)	
c. Why deciduous woodlands have moderate biodiversity and how plants (leaf size and structure, water conservation in winter) and animals (migration, hibernation and food storage) are adapted to that environment.	
3.7 Deciduous woodlands ecosystems provide a range of goods and services some of which are under threat	
a. Examples of goods and services provided by deciduous woodlands ecosystems (timber, fuel, conservation and recreation).	
b. How climate change presents threats to both the structure, function and biodiversity of the deciduous woodland ecosystem.	
c. Economic and social causes of deforestation (urbanisation and population growth, timber extraction and agricultural change). [Use of GIS to identify the pattern of forest loss]	
d. Located Example: Different approaches to the sustainable use and management of deciduous woodlands in a named region. (water conservation)	
Consider doing local case study – Borrowdale woodlands	
START OF YEAR 11 Unit timings: (21/2 / 3 weeks) First 1/2 of HT1	Consider .
	teaching <mark>1.1b; 1.2;</mark>
GEOGRAPHICAL INVESTIGATIONS: FIELDWORK	<mark>1.10 and</mark> 8.3a on
7a INVESTIGATING PHYSICAL ENVIRONMENTS: RIVERS	<mark>fieldwork</mark>
Aim – investigation of change in a river channel	<mark>day.</mark>
 Pre-fieldwork and planning: Understanding the kinds of enquiry questions capable of being investigated through fieldwork and an opportunity to develop a question(s) based on their location and the task. An understanding of the geographical enquiry process appropriate to investigate these. [Map skills -interpreting OS maps / digital maps / GIS to investigate the fieldwork location – including identifying physical features and landforms and human features - patterns of vegetation, land use and footpaths / roads; practice scale, direction; grid references; gradient, contours, spot height (interpret cross sections and transects); annotating maps; spatial awareness – identifying the relative locations and relationships between features. Investigative skills: identify questions or issues for investigation, Develop a hypothesis and/or key questions Consider health and safety and undertake risk assessment Consider appropriate sampling procedures (systematic vs random vs stratified) and sample size Select data collection methods and equipment to ensure accuracy and reliability, Design fieldwork data collection sheets for measurements and observation Describe and interpret geo-spatial data presented in a GIS framework (e.g. analysis of flood hazard using the interactive maps on the Environment Agency website)] 	
 Fieldwork methods – Understanding of the range of different primary data collection techniques and methods used in fieldwork, including observation, sampling strategies and recording techniques. 	

Fieldwork data collection must include at least:



CASE STUDY OF DEVELOPMENT IN A DEVELOPING COUNTRY OR AN EMERGING COUNTRY	
5.5 The level of development of the chosen developing or emerging country is influenced by its location and context in the world	
a. Location and position of the chosen country in its region and globally.	
b. Broad political, social, cultural and environmental context of the chosen country in its region and globally.	
c. Unevenness of development within the chosen country (core and periphery) and reasons why development does not take place at the same rate across all regions. [Using socio-economic data to calculate difference from the mean, for core and periphery regions]	
5.6 The interactions of economic, social and demographic processes influence the development of the chosen developing or emerging country	
a. Positive and negative impacts of changes that have occurred in the sectors (primary, secondary, tertiary and quaternary) of the chosen country's economy. [Using numerical economic data to profile the chosen country]	
b. Characteristics of international trade and aid and the chosen country's involvement in both. [Using proportional flow line maps to visualize trade patterns and flows]	
c. Changing balance between public investment (by government) and private investment (by TNCs and smaller businesses) for the chosen country.	
d. Changes in population structure and life expectancy that have occurred in the last 30 years in the chosen country. [Interpreting population pyramids]	
e. Changing social factors (increased inequality, growing middle class and improved education) in the chosen country.	
5.7 Changing geopolitics and technology impact on the chosen developing or emerging country	
a. How geopolitical relationships with other countries affect the chosen country's development: foreign policy , defence, military pacts , territorial disputes .	
b. How technology and connectivity support development in different parts of the chosen country and for different groups of people.	
5.8 There are positive and negative impacts of rapid development for the people and environment of the chosen developing or emerging country	
a. Positive and negative social, economic and environmental impacts of rapid development for the chosen country and its people.	
b. How the chosen country's government and people are managing the impacts of its rapid development to improve quality of life and its global status .	
YEAR 11 Unit timings: (9½ weeks) Unit 6: last week or 2 of HT2 + first ½ of HT3 (to beginning of March)	
UNIT 6: RESOURCE MANAGEMENT	
BROAD OVERVIEW OF NATURAL RESOURCES (WATER, FOOD AND ENERGY)	
6.1 A natural resource is any feature or part of the environment that can be used to meet human needs	
a. Natural resources can be defined and classified in different ways (biotic, abiotic, renewable and non-renewable).	
b. Ways in which people exploit environments in order to obtain water, food and energy (extraction of fossil fuels , fishing, farming and deforestation).	
c. How environments are changed by this exploitation (reduced biodiversity , soil erosion and reduced water and air quality).	
6.2 The patterns of the distribution and consumption of natural resources varies on a global and a national scale	
a. Global and UK variety and distribution of natural resources (soil and agriculture, forestry, fossil fuels, water supply, rock and minerals). [Use and interpretation of UK and world maps showing the distribution of resources]	
b. Global patterns of usage and consumption of food, energy and water. [Using different choropleth maps and data visualisations such as Gapminder.]	
HT2 mocks, Unit 3 + 4 + 5, 90 mins	
OPTIONAL SUBTOPIC: WATER RESOURCE MANAGEMENT	
Links to Weather Hazards and drought affecting water scarcity as well as responses	
6.8 The supply of fresh water supply varies globally	
a. Global distribution of fresh water.	
b. How the availability of fresh water varies on a global, national and local scale.	
c. Why some parts of the world have a water surplus or a water deficit. [Use and interpretation of UK and world maps showing the distribution of freshwater resources supply and demand]	

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d. How and why the supply and demand for water has changed in the past 50 years due to human intervention. [Use and interpretation of line graphs showing the range of future global population projections, and population in relation to likely available water resources]	
6.9 There are differences between the water consumption patterns of developing countries and developed countries	
a. The proportion of water used by agriculture, industry and domestic in developed countries and emerging or developing countries.	
b. Why there are differences in water usage between developed countries and emerging or developing countries.	
6.10 Countries at different levels of development have water supply problems	
a. Why the UK has water supply problems (imbalances of the supply and demand for rainfall, seasonal imbalances and an ageing infrastructure : sewage and water pipes).	
b. Why emerging or developing countries have water supply problems (access to only untreated water , pollution of water courses and low annual rainfall).	
6.11 Meeting the demands for water resources could involve technology and interventions by different interest groups	
a. How attitudes to the exploitation and consumption of water resources vary with different stakeholders (individuals, organisations and governments). [Use and interpretation of UK and World relative water stress maps.]	
b. How technology (desalination) can resolve water resource shortages.	
6.12 Management and sustainable use of water resources are required at a range of spatial scales from local to international	
a. Why water resources require sustainable management.	
b. Different views held by individuals, organisations and governments on the management and sustainable use of water resources.	
c. How one developed country and one emerging or developing country have attempted to manage their water resources in a sustainable way.	
YEAR 11 Unit timings: (21/3 weeks) last 3 weeks of HT4:	
7B INVESTIGATING HUMAN ENVIRONMENTS (CENTAL/ INNER URBAN) OR RURAL SETTLEMENTS.	
Potential UK city fieldwork to link to Changing Cities GCSE topic above	
Potential UK city fieldwork to link to Changing Cities GCSE topic above	
Potential UK city fieldwork to link to Changing Cities GCSE topic above Aim = investigating change in central/inner urban area(s) 1. Pre-fieldwork and planning: Understanding the kinds of enquiry questions capable of being investigated through fieldwork in urban environments and an opportunity to develop a question(s) based on their location and the task. An understanding of the geographical enquiry process appropriate to investigate these. Secondary data sources • Census data e.g., Office for National Statistics (ONS) website • one other [Map skills -interpreting OS maps / digital maps / GIS to investigate the fieldwork location – including identifying	
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b. Impacts of climate change on people and landscapes in UK	
a. Uncertainties about how global climate change will impact on the UK's future climate.	
8.4 The UK's climate change challenges	
b. Approaches to managing river and coastal UK flood risk.	day
ink to conflicts in the Lake District National Park	<mark>fieldwork</mark>
a. Approaches to conservation and development of UK National Parks (environmental sustainability)	8.3a on rivers
8.3 The UK's landscape challenges	Consider teaching
c. UK net migration statistics and their reliability and values and attitudes of different stakeholders towards migration.	0
b. Costs and benefits of greenfield development and the regeneration of brownfield sites.	
a. The 'two-speed economy' and options for bridging the gap between south east and the rest of the UK.	
8.2 The UK settlement, population and economic challenges	
c. Range of national sustainable transport options for the UK.	
b. Pressures of growing populations on the UK's ecosystems.	
a. Changes in the UK's population in the next 50 years and implications on resource consumption.	slides.
8.1 The UK's resource consumption and environmental sustainability challenge	first slide of the lesson
GEOGRAPHICAL INVESTIGATIONS: UK CHALLENGES	content – see the
Include a practice UK challenges paper with one of the UK Challenges + Human Fieldwork (42 mins)	<mark>previous</mark>
YEAR 11 Unit timings: (3 weeks) HT5	Lots of links to
Final mocks: Paper 1: 60 mins unit 5 + 6; Paper 2: 60 mins rivers + human fieldwork + some of development	
• one other chosen by the centre.	
The use of at least two different secondary sources of data, including: • Census data e.g., Office for National Statistics (ONS) Neighbourhood Statistics – neighbourhood summary report	
 one qualitative fieldwork method to record the views of people on the quality of the rural environment one quantitative fieldwork method to measure flows of people within a rural settlement. 	
Fieldwork data collection must include at least:	
OR RURAL Aim = investigating change in rural settlements.	
[appraisal and review of data and information, to see if these are accurate, suitable for the purpose, or misleading and unreliable.]	
Comments on the accuracy, validity and the reliability of the conclusions	
6, Evaluation – reflecting critically on fieldwork data, methods used, conclusions drawn and knowledge gained.	
[Investigative skills: develop extended written arguments, drawing well evidenced and informed conclusions from data]	
5. Drawing evidenced conclusions and summaries from fieldwork transcripts and data.	
[Interpret and extract information from different types of graphs and charts. Investigative skills : write descriptively, analytically and critically about findings]	
Analysing and explaining data collected in the field using knowledge of relevant geographical case studies and theories.	
be able to identify weaknesses in selective statistical presentation of data]	
Statistical skills: consider using bedload size to show use appropriate measures of central tendency, spread and cumulative frequency (median, mean, range, quartiles and inter-quartile range, mode and modal class) lines of best fit as able to identify weak persons in collective statistical presentation of data.	
pictograms, line charts, histograms with equal class intervals; flow lines, proportional circles.	
select and construct appropriate graphs and charts to present data, using appropriate scales (including use of ICT to manage, collate, process and present information and use of hand drawn graphical skills e.g bar charts, pie charts,	
a lest and construct annumber and the state to present data contraction and the function of the state of the function of the state of t	

Mathematics and Statistics Skills

Cartographic skills:

- use and understand gradient, contour and spot height on OS maps and other isoline maps
- (e.g. weather charts, ocean bathymetric charts)
- interpret cross sections and transects
- use and understand coordinates, scale and distance
- describe and interpret geo-spatial data presented in a GIS framework framework

(e.g. analysis of flood hazard using the interactive maps on the Environment Agency website)

Graphical skills:

• select and construct appropriate graphs and charts to present data, using appropriate scales and including bar charts, pie charts, pictograms, line charts, histograms with equal class intervals

• interpret and extract information from different types of graphs and charts including any of the above and others relevant to the topic (e.g. triangular graphs, radial graphs, wind rose diagrams, proportional symbols)

• interpret population pyramids, choropleth maps and flow-line maps

Numerical skills:

• demonstrate an understanding of number, area and scale and the quantitative

relationships between units

• design fieldwork data collection sheets and collect data with an understanding of

accuracy, sample size and procedures, control groups and reliability

- understand and correctly use proportion and ratio, magnitude, frequency (e.g. 1:200 flood events) and logarithmic scales
- draw informed conclusions from numerical data

Statistical skills:

- use appropriate measures of central tendency, spread and cumulative frequency (median, mean, range, quartiles and inter-quartile range, mode and modal class)
- calculate percentage increase or decrease and understand the use of percentiles
- describe relationships in bivariate data: sketch trend lines through scatter plots; draw

estimated lines of best fit; make predictions; interpolate and extrapolate trends

• be able to identify weaknesses in selective statistical presentation of data