

# Geography and Environmental Science

Year 7		
Term and Topic	Unit Content	Homework Opportunities
Autumn Term 1 : Geomorphology	Structure of the Earth Rock Types / Rock Cycle Types of Weathering Types of Erosion Continents and Oceans Physical Geography of British Isles	Earth research - ipad Cartoon Strip - Rock Cycle Weathering Investigation – submit via Showbie Continents and Oceans worksheet Spelling Test Revision Weathering Assessment
Autumn Term 2: Map Skills	Direction Scale Symbols 4 and 6 figure grid references	Shark Island Fitting Furniture Symbols using ipad Grid reference worksheets Spelling Test Revision Map Skills Assessment
Spring Term 1: Settlement	European Union British Isles Choosing a Site Settlement Hierarchy Land Use in Towns and Cities	Country Fact File Locating Cities Settlement Assessment Preparation Timeline app – Land Use Land Use in Milburn Spelling Test Revision
Spring Term 2: River Features	V-shaped valley Waterfalls Meanders, Ox-bow lakes Floodplains Long Profile	Research Waterfalls ipad Cross-section worksheet Spelling Test Revision Meanders Assessment Floodplain - ipad
Summer Term 1: Weather and Climate	What is weather? How do we measure weather? How weather affects us. Weather Symbols How does it rain? Anticyclones Depressions	How weather affects us? Measuring the Weather Sailing worksheet Weather Map Research ipad Anticyclone Newspaper Article Depression Worksheet
Summer Term 2: Shopping and Traffic	Convenience and Comparison Goods Where do we shop? Changes in Shopping Out-of-town centres Internet Shopping Traffic in Urban Areas Traffic Problems in Cities Building a By-pass	Convenience and Comparison worksheet Why do we prefer to shop? Bluewater Brochure ipad Convincing Mum to shop online. Problems and Solutions worksheet

<b>Year 8</b>		
<b>Term and Topic</b>	<b>Unit Content</b>	<b>Homework Opportunities</b>
Autumn Term 1 : Volcanic Hazards	Distribution of earthquakes and volcanoes. Plate Boundaries. Structure of a volcano. Effects of a volcanic eruption – case study.	What happens at plate boundaries? Research of a volcano – iPad Key terms - spelling Descriptive writing on effects
Autumn Term 2: Italy	Physical geography of Italy Italy's population Tourism in Italy Comparison between the North and the South Migration in Italy	Finding out about Italy - iPad  Tourism fact file - iPad) Italy's different areas (extended writing)
Spring Term 1: Limestone	Formation and location of limestone in geological time Limestone features Limestone in everyday life Limestone quarries Impacts of limestone quarries	Geological timescale Research - iPad) on a limestone area in the UK Investigation on limestone products - iPad Limestone quarries
Spring Term 2: Rainforest Destruction	Climate of the rainforest. Biodiversity and importance. Rainforest destruction Rainforest sustainability	Climate graph description Research layers - iPad Chico Mendes mystery Rainforest Alliance Products - iPad
Summer Term 1: Globalisation	What is globalisation? What are Trans-National Corporations? Effects of TNC's on poorer countries	My global house - iPad Top 10 TNC's - iPad Key terms - spelling Descriptive writing on effects of TNC's
Summer Term 2: Development	What is development? How do we measure development? Poor country - case study example Sustainable development	Development meaning – descriptive writing Vocabulary and terminology. Differences between rich and poor countries Project
<b>Year 9</b>		
<b>Term and Topic</b>	<b>Unit Content</b>	<b>Homework Opportunities</b>
Autumn Term 1: Wildlife Conservation	Habitats under threat. Species under threat. Species conservation – sea turtles/ elephants/Iberian lynx/pandas. Who is responsible for wildlife conservation?	Research wildlife in threatened habitats. Species under threat identify IUCN status. Design a tee shirt. Questions on causes of decline. 'Fatebook' Fact file on panda decline - Wildlife Conservation assessment revision.

Autumn Term 2: Tsunami	Earthquakes Causes, effects, responses and coping with tsunamis. Tsunami mystery.	How do earthquakes happen – - cartoon Research historical tsunamis Extended writing on tsunami effects. Design a pair of Gandy flip flops Assessment
Spring Term 1 and 2: Kenya	What is Kenya like? Climate of Kenya. Massai. Kikuyu. Rural urban Migration. Rich and poor Nairobi. Characteristics and problems - of a shanty town. Improving a shanty town – simulation. Improving life in the rural areas.	Research- on Kenya. Extended writing – Changing way of life of the Massai. Comparison between Massai and Kikuyu. Reasons for rural urban migration. Problems for shanty dwellers – extended writing. Worksheets – improving a shanty town. Projects on rural areas – links to charity work
Summer Term 1: Flooding	Causes of flooding. Flood hydrographs. Case study of a flood Short and long term responses to flooding	Extended writing Research grid Reducing floods summary sheet
Summer Term 2: Migration	What is migration and what are the causes of it? Case study – Mexicans to USA Packing for a journey simulation activity Mystery migration from southern to northern Italy	Worksheet Extended writing on what are the effects of migration Diary of a migrant
<b>Year 10 Geography</b>		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn term 1: Tourism	Global increase in tourism in cities, mountains and coastal areas Economic importance of tourism UK tourism Case Study of a UK tourist resort – Life cycle model  Mass tourism in a tropical area. Case study including effects and management strategies Extreme environments:	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work Revision for end of unit assessment

	Case Study - Attractions, impacts, solutions	
Autumn term 2: Tourism	Ecotourism – Sustainable tourism Case study – social, economic and environmental benefits	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work
Water on the Land	River valley changes River valley landforms Hydrographs and factors affecting discharge Causes of flooding	Revision for end of unit assessment
Spring Term 1 : Water on the Land	Flood frequency and case studies – LEDC & MEDC Hard and Soft Engineering Water Supply and Demand	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work Revision for end of unit assessment
Spring Term 2: Changing Urban Environments	Urbanisation in the world Land use in urban areas Planning urban living in rich countries Rapid urbanisation in poor countries The development of squatter settlements Managing environmental problems in poor countries	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work Revision for end of unit assessment
Summer Term 1: Changing Urban Environments	Sustainable urban living	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work
The coastal Zone	Processes of erosion, deposition and transportation Weathering processes	Revision for end of unit assessment
Summer Term 2: The coastal Zone	Coastal landforms Cliff collapse Rising sea levels Managing the coast Habitats in coastal areas	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work Revision for end of unit assessment

Year 10 Environmental Science		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1: Population and Sustainability	Population trends Sustainable development Ecological footprints	Population data research exam questions Sustainable or not? Population pressure research Ecological footprint investigation
Autumn Term 2: Population and Sustainability	Increasing food supplies Sustainability of food production	Poster – changes in agriculture Persuasive argument on GM foods exam questions Revision questions for end-of- unit test
Spring Term 1: Energy Resources	Use of energy resources Reducing energy consumption	Energy use investigation Energy consultant report Nuclear power debate speech
Spring Term 2: Energy Resources	Fossil Fuels Alternative energy sources	Exam questions Geothermal energy leaflet Choosing sites for alternative energy Revision questions for end- of-unit test The truth about climate change – research Carbon cycle questions
Global Climate Change	The Greenhouse Effect Human causes of climate change	
Summer Term 1: Global Climate Change	Impacts of climate change Reducing carbon emissions	Climate change article Exam questions Reducing carbon emissions analysis International climate change debate Revision questions for end-of- unit test
Summer term 2 Practical skills and examination revision	revision Practical skills Investigative skills. mock assessment (ISA)	Exam questions Data analysis questions Revision Investigation terms questions Exam ISA questions
Year 11 Geography		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1: Coastal Zone	Processes of erosion, deposition and transportation	Learning of unit terminology and spelling tests

	Weathering processes Coastal landforms Cliff collapse	GCSE questions Extending writing Map work Research work Revision for end of unit assessment
Autumn Term 2: Coastal Zone	Rising sea levels Managing the coast Habitats in coastal areas	
Controlled Assessment	External exam based	No homework
Spring Term 1: The Restless Earth	Activity at plate margins Landforms at plate margins Case study of the effects of volcanic activity Supervolcanoes Location of earthquakes Effects of earthquakes tsunamis	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work Revision for end of unit assessment
Spring Term 2: Population Change	Growth of world population Control of rapid population growth Ageing populations migration	Learning of unit terminology and spelling tests GCSE questions Extending writing Map work Research work Revision for end of unit assessment
Summer Term 1:	Revision	
Year 11 Environmental Science		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1: The Management of Wildlife Resources	Importance of wildlife Threats to wildlife Surveying species and habitats Protecting wildlife	Value of wildlife persuasive poster Threat to wildlife research exam questions Wildlife surveys worksheet Organisations and agreements fact file Key terms activity Captive breeding argument
Autumn Term 2: The Management of Wildlife Resources	Managing habitats for wildlife Impacts of commercial fishing Sustainable fishing	exam questions National Park versus Nature Reserve – research Key terms activity Pollution incident research Commercial fishing impacts poster Revision questions Revision

Spring Term 1: Investigative Skills Assessment (ISA)	Planning and conducting an investigation Practical investigation Investigative Skills Assessment (internal examination)	Key terms activity exam questions ISA worksheet activity 1 ISA worksheet activity 2 Revision for ISA examination
Spring Term 2: The Management of Water Resources	Use of water resources Monitoring water quality Sourcing water supplies Conserving water supplies	Set textbook questions exam questions Internet research hydrological outlook Water conservation poster exam questions Key terms activity
Summer Term 1: The Management of Water Resources	Treatment of water	exam questions
Examination preparation	Exam techniques Focused revision lessons Exam revision	Revision for examinations
Year 12 Geography : The units will be taught parallel to each other		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1: Cold Environments	The global distribution of cold environments Ice movement – types of flows Glacial processes and landscape development Erosional and depositional landforms Snowdon fieldtrip case study – unit 2	Key terminology Past questions Research GA, newspaper and Geographical Review articles. Fieldwork tasks
Autumn Term 2: Cold Environments	Fluvioglacial processes and landforms Preglacial processes and landforms Exploitation and development in tundra areas and the Southern Ocean The future of Antarctica	Key terminology Past questions Research GA, newspaper and Geographical Review articles. Group work Development of Cold Environments
Spring Term 1: Rivers, floods and Management	The drainage basin, hydrological cycle, water balance Factors affecting river discharge The long profile – changing processes	Key terminology Past questions Research GA, newspaper and Geographical Review articles. Fieldwork tasks – Graphing and annotating (Unit 2)

	Valley profile – changes downstream Changing channel characteristics Landforms of fluvial erosion and deposition  Process and impact of rejuvenation	
Spring Term 2: Rivers, floods and Management	Magnitude frequency analysis of flood risk Physical and human causes of floods Impacts of floods Flood management strategies	Key terminology Past questions Research GA, newspaper and Geographical Review articles. Fieldwork tasks – Graphing and Annotating (unit 2)
Summer Term 1:	revision	
Summer term 2: Plate Tectonics and Ecosystems	Earth structure – plate tectonic theory Succession and climatic climax	Past questions
<b>Year 12 Geography : The units will be taught parallel to each other</b>		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 and 2 Health Issues	Global pattern of health The study of one infectious disease. The study of one non communicable disease Malnutrition, famine and obesity. Contrasting health care systems Transnational pharmaceutical and tobacco companies Regional variations in health in the UK Factors affecting regional health	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Spring Term 1 and 2 Population Change	Population indicators Demographic Transition Model Population structure Implications of population change The impact of migration on rural and urban areas Comparing two contrasting urban areas	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Summer Term 1:	Revision	



Summer term 2: World Cities	The global pattern of mega cities Contemporary urbanisation processes	Past questions
<b>Year 12 Environmental Studies: The units will be taught parallel to each other.</b>		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 and 2 The Atmosphere	The composition and structure of the atmosphere. Solar radiation and the atmosphere Global climate change Control of global climate change Ozone depletion	Key terminology Past questions Research
Spring Term 1 and 2: The Hydrosphere	Properties of water The hydrological cycle Water as a resources Sources of water Water treatment Demand for water Water conservation and management	Key terminology Past questions Research
Summer Term 1:	revision	
Summer Term 2: Pollution	Pollution simulation	Key terminology Past questions Research
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn term 1 and 2: Wildlife Conservation	How humans treat wildlife Conservation methods Conservation in the UK Conservation abroad	Key terminology Past questions Research
Spring Term 1 and 2:	Life processes in the Biosphere	Key terminology Past questions Research
Summer Term 1:	Revision	
Summer Term 2:	Practical skills	Key terminology Past questions Research
<b>Term and Topic:</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn 1 and 2: The Lithosphere	Mineral resources Biogeochemical cycles Soils Practical skills	Key terminology Past questions Research

Spring 1 and 2: Land Resources	Land resources Land use conflict Methods of resolving land use conflict Practical skills	Key terminology Past questions Research
Summer 1:	Revision	
Summer 2: Pollution	Solid waste	Key terminology Past questions Research
<b>Year 13 Geography : The units will be taught parallel to each other.</b>		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 and 2: World Cities	Urban decline and regeneration within urban areas Retailing and other services Contemporary sustainability issues in urban areas	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Spring Term 1 and 2: Development and Globalisation	Factors affecting globalisation Patterns and processes in a global world Countries at very low levels of economic development Global social and economic grouping Aspects of globalisation Development issues within the world	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Summer Term 1:	Revision	
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 : Field Work Assessment	Field Work write up based on questions from Unit 4 paper	Field Work write up
Autumn Term 2: Nature of ecosystems  Ecosystems in the British Isles over time	Succession and climatic climax – psammosere. The characteristics of the temperate deciduous woodland biome. Plagioclimax - the effects of human activity on succession	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Spring term 1: Tropical biome	The main characteristics of the tropical rainforests. - Adaptations by vegetation and animals. Human activity and its impact and sustainability.	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Spring term 2: Ecosystem issues on a global scale	The management of fragile environments - 2 case studies	Report on 2 contrasting areas. Key terminology Past questions

Ecosystem issues on a local scale	Impact of human activity Changes in the rural/urban fringe. Ecological conservation - case study	Research GA, newspaper and Geographical Review articles.
Summer 1:	Revision	
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn 1: Plate tectonics and associated hazards	Destructive, constructive and conservative plate margins. Processes: seismicity and vulcanicity. Associated landforms Hot spots .	Key terminology Past questions Research GA, newspaper and Geographical Review articles.
Autumn 2: Plate tectonics and associated hazards	Variations in the type and frequency of volcanic activity Forms of intrusive activity. Minor forms of extrusive activity. Major forms of extrusive activity – types of volcanoes. Two case studies of contrasting volcanic activity The impact of volcanic activity and management of the hazard and responses to the event.	Key terminology Past questions Research GA, newspaper and Geographical Review articles. Group work – Impact of a volcanic hazard
Spring 1: Plate tectonics and associated hazards	The causes and main characteristics of earthquakes: Tsunamis – characteristics and causes. Two case studies of seismic events from contrasting areas of the world. The impact of the seismic activity and management of the hazard and responses to the event.	Key terminology Past questions Research GA, newspaper and Geographical Review articles. Group work – Impact of a volcanic hazard
Summer 1:	Mock Paper and Revision Unit 4A Preparation	Past questions
<b>Year 13 Environmental Studies : The units will be taught parallel to each other.</b>		
<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 and 2: Pollution	General properties of pollution Atmospheric pollution	Key terminology Past papers Research

	Water pollution Pesticides Inorganic and organic nutrients	
Spring Term 1 and 2: Pollution	heavy metal pollution Noise pollution Ionising radiation	Key terminology Past papers Research
Summer Term 1:	Revision	

**Year 13 Environmental Studies : The units will be taught parallel to each other.**

<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 and 2: Biological Resources	Food production systems Environmental and social impact of agriculture Agricultural energetic Social/economic /political factors which influence agriculture	Key terminology Past questions Research
Spring Term 1 : Aquatic Food Production Systems	Fishing Aquaculture – fish farming	Key terminology Past questions Research
Spring Term 2:	Forestry resources	Key terminology Past questions Research
Summer term 1:	Revision	

**Year 13 Environmental Studies : The units will be taught parallel to each other.**

<b>Term and Topic</b>	<b>Unit content</b>	<b>Homework opportunities</b>
Autumn Term 1 and 2: Energy	Energy use Energy resources Secondary fuel Energy storage The environmental impact of energy use Future energy supplies	Key terminology Past questions Research
Spring Term 1 and 2: Sustainability	The impact of individuals on the environment Unsustainably lifestyles Attempts to achieve sustainable development	Key terminology Past questions Research
Summer Term 1:	Revision	