Year 10 Units of Work - GEOGRAPHY

Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit of Work	Topic 2 **Changing Climate** Paper 1	Topic 7 **UK in the 21st Century** Paper 2	Topic 7 **UK in the 21st Century** Paper 2	Topic 3 **Distinctive Landscapes (Rivers)** Paper 1	Topic 4 **Sustaining Ecosystems** Paper 1	Topic 4 **Sustaining Ecosystems** Paper 1
Curriculum Map (Links to OCR B 9-1 GCSE) **AO1** Geographical Knowledge **AO2** Geographical Understanding **AO3** Application of knowledge and understanding	**Evidence for climate change** What is the pattern of climate change over the past 450,000 years? (quaternary period) What evidence is there of climate change and how reliable is it? (ice cores, sea ice position, global temperature data, paintings & diaries) **Causes of climate change** What are the natural causes of climate change (sunspots, volcanic activity and Milankovitch cycles) How have humans enhanced the natural greenhouse effect? **EXAMPLES of Global impacts of climate change** Explore some social, economic and environmental impacts of climate change linked to sea level rise and extreme weather events around the globe in the 21st century **EXAMPLES of UK impacts of climate change** Explore some social, economic and environmental impacts of climate change linked to weather patterns, seasonal changes and changes in industry in the UK in the 21st century	**Overview of the Physical and Human Geography of the UK** What is the pattern of rainfall? What is the pattern of relief? What is the pattern of population density? Which areas have water stress + why? Which areas have housing shortages + why? **Population changes in UK in 21st Century** Where is the UK on the Demographic Transition Model today? How has total population changed? Why has the total population changed? (natural change and impacts of migration) What are the causes, effects, spatial distribution and responses to the UK's ageing population? **Year 10 Exam Preparation** 4 or 5 Lessons preparation for the Y10 exam in lessons including production of knowledge organisers/glossary/mind-maps and cue cards – revise topics 1, 2, 5, 8 **Year 10 Exam Week** Topics 1,2,5,8 practice paper	**EXAMPLE of how the population of one named place has changed - London** Explore the changing age structure in London since the start of the 21st Century Explore the change in ethnic diversity in London since the start of the 21st Century **Economic changes in UK in 21st Century** How can you classify employment? How has employment structure changed? How have working hours changed? How has the economy changed and why? (link to Government priorities) **Economic Hubs** What are economic hubs? What is the pattern of economic hubs across the UK? **EXAMPLE of how one UK economic hub has changed – London east end** Explore the changing economy of the East end of London during the 21st century **The UK's global significance** **EXAMPLE of the UK's political role in one conflict – Russia/Ukraine conflict** Explore the UK's role in the Russia Ukraine conflict **EXAMPLE of UK Media exports** Explore how the UK's TV and Film industry has spread its culture globally **EXAMPLE of changing UK Food culture** Explore how the UK's food culture has been changed due ethnic groups	FINISH UK TOPIC **Landscapes** What is a landscape (natural and built) UK Landscapes (upland, lowland and glacial) – distribution and characteristics **River Landscapes** What geomorphic processes shape river landscapes? (Erosion, weathering, mass movement, transportation and deposition) How are different river landforms created? (waterfall, gorge, v shaped valley, floodplain, levee, meander, oxbow lake) **CASE STUDY of a river basin** **The River Seven** • Distinctive landforms & processes • Influence of geology and climate • Human activity and impact on landscape and processes (river management strategies to recuse flooding and human activities that increase the risk of flooding) **River fieldwork skills (link back to Y7 fieldwork)** Does Bradshaw's model apply to the river Camel? (width, depth, cross-sectional area, velocity, sediment size variation downstream) **Geographical Skills Recap** Using OS maps, photos and GIS	FINISH RIVERS TOPIC **Global Ecosystems - Overview** What is an ecosystem? How do ecosystems work as an interdependent system? (nutrient cycle, water cycle, food chains) How are major biomes of the world distributed? What is the climate, flora and fauna like within these ecosystems? **Tropical Rainforests** Explore the distinctive characteristics and interdependence of tropical rainforests including climate, soils, plants, animals, nutrient cycle, the water cycle and indigenous people. Why are tropical rainforests so important? (rainforest goods and services) How are humans impacting on rainforests through mining, logging, agriculture, ecotourism? **CASE STUDY of small-scale sustainable management of a tropical rainforest Samasati Ecotourist Retreat in Costa Rica** Evaluate the economic, social and environmental sustainability of the ecotourism retreat in Costa Rica	**Polar Environments** Explore the distinctive characteristics of the Arctic and Antarctica including climate, flora, fauna and sea and land features. **The Arctic** How does the Arctic work as an interdependent ecosystem (climate, soil, plants, animals and indigenous people) How are humans impacting on the Arctic through fishing, whaling, tourism, mineral extraction and scientific research? **CASE STUDY of small-scale sustainable management of an area the Arctic Marine Wildlife area in Baffin Bay** Evaluate the economic, social and environmental sustainability of the marine wildlife sanctuary near the Clyde River in Baffin Bay. **CASE STUDY of global scale sustainable management of Antarctica – The Antarctic Treaty** Evaluate the economic, social and environmental sustainability of the Antarctic Treaty **Year 10 Human Fieldwork (Wadebridge)** Visit to Wadebridge to undertake human fieldwork to investigate own question: *Should all of Molesworth Street be pedestrianised?* Follow up to fieldwork to include all of enquiry process (methods, processing and presenting, analysis, conclusion, reflecting critically)
AO4 Geographical Skills (Plus DNA Activities)	Line graphs Satellite images Pie charts Cartoons Choropleth maps Extrapolate trends on graphs Identify weaknesses, strengths, bias Thematic maps	Interpreting Thematic Maps of the UK Choropleth maps Pictograms Line graphs Describe Distributions using maps Atlas maps Proportional Symbols Calculate Percentages GIS Maps Pie Charts Pictograms Interpret photos	Choropleth maps Pictograms Line graphs Data tables Make predictions Divided bar charts Population pyramids Ratio Design fieldwork data collection sheets Interpret data tables Draw appropriate graphs Identify strengths and weaknesses	Interpret photos Interpreting Thematic Maps of the UK Choropleth Maps All Stages of unfamiliar river fieldwork enquiry Cross sections (river) Line graphs Scatter graphs and line of best fit Calculating velocity Interpret data tables Describe relationships Identify weaknesses in data and methods	Interpret Photos and diagrams Distribution maps of Biomes Analysing text Climate graphs Thematic maps Line Graphs Bar Graphs	**Year 10 Human Fieldwork (Wadebridge)** Visit to Wadebridge to undertake human fieldwork to investigate own question: *Should all of Molesworth Street be pedestrianised?* Follow up to fieldwork to include all of enquiry process (question, methods, processing and presenting, analysis, conclusion, reflecting critically)
Assessments	K – Greenhouse Effect (12 marks) L – Changing Climates End of Topic Test (13 marks)	**M – Y10 Mock Exam** – Topics 1, 2, 5, 8 (52 marks – 1 hour)	N – Econ Hub Case Study (8 marks)	O – UK End of Topic Test (13 marks)	P – Rivers End of Topic Test (13 marks)	Q - Case Study Tropical Rainforest (8 marks)
Home Learning Opportunities	(Seneca and Google Quizzes) Revision and Assessment preparation	(Seneca and Google Quizzes) Revision and Y10 Mock Exam preparation	(Seneca and Google Quizzes) Revision and Assessment preparation	(Seneca and Google Quizzes) Revision and Assessment preparation	(Seneca and Google Quizzes) Revision and Assessment preparation	(Seneca and Google Quizzes)