

Curriculum Mapping in the Department of Geography

	Year 7	Year 8	Year 9	Year 10	Year 11
Autumn Term 1	<p>Topic: Introduction to Geography Knowledge: Spatial awareness of countries and continents. Focus on the basics of physical geography studying the continents, oceans, rock types, the rock cycle and geographical time scale.</p> <p>Skills: how to use maps, globes & atlases. How to interpret OS maps NC Links: LK, PK, GS&F</p>	<p>Topic: Tectonics Knowledge: Physical geography relating to plate tectonics. Understanding how physical and human processes interact & how human activity relies on the effective functioning of natural systems.</p> <p>Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, GS&F</p>	<p>Topic: Natural Resources Knowledge: Physical and human geography relating to natural resources. Extend locational knowledge and deepen spatial awareness of distribution and consumption of natural resources.</p> <p>Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, HG, GS&F AOs: NA</p>	<p>Topic: Changing Cities Knowledge: Global urban processes and trends. Detailed case studies of a major UK city and a major city in a developing or emerging country.</p> <p>Skills: Use of maps, aerial photographs, GIS and data including population pyramids & census data AOs: Edexcel Specification 1GAO/02 4.1-4.8</p>	<p>Topic: Resource Management Knowledge: The global and UK distribution of food, energy and water.</p> <p>Skills: Use of maps, aerial photographs, GIS and data including choropleth maps and Gapminder AOs: Edexcel Specification 1GAO/02 6.1-6.2</p>
Cross Curricular Link	<p>Maths: scale, ratio & grid references Science: Investigations</p>	<p>Maths: scale Science: structure of the earth taught in summer term</p>	<p>Maths: graphs Science: Links with biomes, ecosystems, rock cycle and resource management.</p>	<p>Maths: population pyramids History: Industrial Revolution taught in Autumn Year 7</p>	<p>Maths: stats taught in year 10 Science: hydrocarbons & ecological footprints studied in summer year 10 and year 11</p>
Autumn Term 2	<p>Topic: Settlement & Urbanisation Knowledge: Spatial awareness of countries focusing on the local area and UK. Human geography relating to urbanisation and how people change the landscape.</p> <p>Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, HG, GS&F</p>	<p>Topic: Tectonics continued Knowledge: Physical geography relating to plate tectonics. Understanding how physical and human processes interact & how human activity relies on the effective functioning of natural systems.</p> <p>Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, GS&F</p>	<p>Topic: The Middle East Knowledge: Physical and human geography relating to natural resources. Extend locational knowledge and deepen spatial awareness of the Middle East.</p> <p>Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, HG, GS&F AOs: NA</p>	<p>Topic: Geographical Fieldwork Investigations: Human Geography Knowledge: To know how to conduct a fieldwork investigation on a changing city environment – investigating change in central/inner urban area(s). Skills: Use of maps, aerial photographs, GIS and data to include census data and dispersion diagrams. Use fieldwork to collect, analyse and draw conclusions from geographical data AOs: Edexcel Specification 1GAO/02 4.1-4.5, 1GAO/03 7B Owing to COVID-19, this unit of work will be moved to a suitable point in the year or a virtual field work – TBC.</p>	<p>Topic: Energy Resource Management Knowledge: Detailed study of energy resource management including reference to management in countries at different levels of development Skills: Use of maps, aerial photographs, GIS and data including choropleth maps and carbon & ecological footprints AOs: Edexcel Specification 1GAO/02 6.3-6.7</p>

<p align="center">Cross Curricular Link</p>	<p>Maths: Mean, median mode & range Science: Investigations</p>	<p>Maths: scale, Science: structure of the earth taught in summer term</p>	<p>Maths: graphs Science: Distillation (salt water) to with water resource management</p>	<p>Maths: range, mean, median, mode, % increase & decrease. Higher groups study interquartile range Science: investigations</p>	<p>Maths: stats taught in year 10 Science: Finite & renewable resources. hydrocarbons & ecological footprints studied in summer year 10 and year 11</p>
<p align="center">Spring Term 1</p>	<p>Topic: Geographical Fieldwork Investigations: Human Geography Knowledge: Focus on how an area has changed over time. Local area study. How to conduct geographical investigations Skills: Use fieldwork to collect, analyse and draw conclusions from geographical data NC Links: PK, HG, GS&F</p>	<p>Topic: Economic Activity, Development & Africa Knowledge: Spatial awareness of countries. Economic activity in the primary, secondary, tertiary & quaternary sectors. Human geography relating to international development. To understand how human and physical processes interact Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, HG, GS&F</p>	<p>Topic: Changing Landscapes of the UK Knowledge: To extend locational knowledge of the UK. Physical geography relating to geology. Understanding how physical and human processes interact & how human activity relies on the effective functioning of natural systems Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, GS&F. AOs: Edexcel Specification 1GAO/01 1.1, 1.2</p>	<p>Topic: Global Development Knowledge: Human geography relating to international development. Extend locational knowledge and deepen spatial awareness of India. Causes and consequences of uneven global development and detailed case studies of challenges that affect a developing or emerging country Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, HK AOs: Edexcel Specification 1GAO/02 5.1-5.8</p>	<p>Topic: UK Challenges & Topic Intervention Knowledge: Knowledge and understanding of the physical and human characteristics of the UK from Components 1 and 2, and to use geographical skills to investigate a contemporary challenge for the UK. The UK challenge will be drawn from one or more of four themes: resource consumption, population and economic challenges, landscape challenges and climate challenges Skills: Use of maps, aerial photographs, GIS and data AOs: Edexcel Specification 1GAO/03 8.1-8.4</p>
<p align="center">Cross Curricular Link</p>	<p>Maths: Positive & Negative correlations, line, bar & pie charts Science: sampling strategies</p>	<p>Maths: scale, compound bar graphs, scattergraphs taught in year 7 and Autumn year 8 Science:</p>	<p>Maths: Science: Geology, rock cycle, weathering & erosion</p>	<p>Maths: range, mean, median, mode, % increase / decrease, data analysis, scattergraphs taught in year 7 spring and year 8 spring</p>	<p>Maths: range of data presentation and analysis skills Science: climate change, carbon footprints, finite and renewable energy</p>
<p align="center">Spring term 2</p>	<p>Topic: Geology & Physical Processes Knowledge: Physical geography relating to geological timescales, rocks, weathering and soils. Understanding how physical processes interact to influence and change landscapes Skills: Use of OS maps and aerial and satellite photographs NC Links: PG & GS&F</p>	<p>Topic: Weather & Climate Knowledge: Physical geography relating to weather and climate, including the change in climate from the Ice Age to the present Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, GS&F</p>	<p>Topic: River Landscapes Knowledge: Physical geography relating to processes and rivers. GCSE river landscapes and processes Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, GS&F AOs: Edexcel Specification 1GAO/01 1.7-1.10</p>	<p>Topic: Weather Hazards & Climate Change Knowledge: the global circulation of atmosphere and climate change over time two detailed studies of tropical cyclones and drought Skills: Use of maps, aerial photographs, GIS and data including the Saffir-Simpson Scale AOs: Edexcel Specification 1GAO/01 2.1-2.42.5-2.8</p>	<p>Topic: UK Challenges & Topic Intervention Knowledge: Knowledge and understanding of the physical and human characteristics of the UK from Components 1 and 2, and to use geographical skills to investigate a contemporary challenge for the UK. The UK challenge will be drawn from one or more of four themes: resource consumption, population and economic challenges, landscape challenges and climate challenges</p>

					Skills: Use of maps, aerial photographs, GIS and data AOs: Edexcel Specification 1GAO/03 8.1-8.4
Cross Curricular Link	Maths: scale Science: structure of the earth taught in summer term 2	Maths: line graphs Science: Evolution relating to climate change & greenhouse effect EMP: Religion & the environment	Maths: hydrographs Science: weathering, erosion English: "Examine how" questions in geography – "how does the writer" in English	Maths: line graphs, mean Science: climate change covered in year 7, year 8 and year 9	Maths: range of data presentation and analysis skills Science: climate change, carbon footprints, finite and renewable energy
Summer Term 1	Topic: How do physical processes change the landscape? Knowledge: Understanding how physical processes interact to influence and change landscapes: glaciation and hydrology Skills: Use of OS maps and aerial and satellite photographs NC Links: PG & GS&F	Topic: Coastal Landscapes to include Field Investigations: Physical Geography Knowledge: Understanding how physical processes interact to influence and change landscapes: coasts Skills: Use fieldwork to collect, analyse and draw conclusions from geographical data NC Links: LK, PK, GS&F	Topic: Geographical Fieldwork Investigations: Physical Geography Knowledge: Physical geography relating to rivers to include Rivers investigation. Skills: Use fieldwork to collect, analyse and draw conclusions from geographical data. Use of maps to include flood risk maps NC Links: PK, HG, GS&F AOs: Edexcel Specification 1GAO/01 1.7-1.10 + 1GAO/03 7A MOVED OWING TO COVID LOCKDOWN – new timing TBC or virtual field trip.	Topic: Ecosystems & Biodiversity Knowledge: the distribution and characteristics of global and UK ecosystems Skills: Use of maps, aerial photographs, GIS and data including nutrient cycles AOs: Edexcel Specification 1GAO/01 3.1-3.3	Topic: Geographical Skills & Synoptic Links & Revision Knowledge: Knowledge and understanding of the physical and human characteristics of the UK from Components 1, 2 and 3 Skills: Use of maps, aerial photographs, GIS and data, examination technique to focus on extended writing. Mathematical skills AOs: Edexcel Specification 1GAO
Cross Curricular Link	Maths: scale, ratio, graphs Science: geology, weathering	Maths: Proportional symbols taught in spring year 8 Science: investigations, sampling strategies, qualitative and quantitative data, presentation and analysis	Maths: Data presentation and analysis, range, mean, proportional symbols taught year 8 spring term. Science: investigations	Maths: line graphs, mean Science: nutrient cycles, plant and animal adaptations covered in year 7 and year 11	Maths: range of data presentation and analysis skills Science: climate change, carbon footprints, finite and renewable energy
Summer Term 2	Topic: Focus on Russia Knowledge: extend locational knowledge and deepen spatial awareness of Russia: key characteristics: physical and human geography Skills: Map skills, GIS, NC Links: LK, PK, H&PG, GS&F	Topic: Population & Asia Knowledge: Human geography relating to population & urbanisation. Extend locational knowledge and deepen spatial awareness of Asia: Skills: Map skills, GIS, NC Links: LK, PK, H&PG, GS&F	Topic: Coastal Landscapes Knowledge: Physical geography relating to processes and coasts. GCSE coastal landscapes and processes Skills: Use of maps, aerial photographs, GIS and data NC Links: LK, PK, GS&F AOs: Edexcel Specification 1GAO/01 1.3-1.6	Topic: Ecosystems & Biodiversity Knowledge: Two detailed studies of deciduous woodlands and tropical rainforests. Skills: Use of maps, aerial photographs, GIS and data including nutrient cycles AOs: Edexcel Specification 1GAO/01 3.4-3.7	

<p>Cross Curricular Link</p>	<p>Maths: scale and distance Science: natural resources: fossil fuels</p>	<p>Maths: Graphs – line and bar graphs</p>	<p>Maths: Science: teach greenhouse effect – link to climate change causing sea level rise English: “Examine how” questions in geography – “how does the writer” in English</p>	<p>Maths: line graphs, mean Science: nutrient cycles, plant and animal adaptations covered in year 7 and year 11</p>	
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