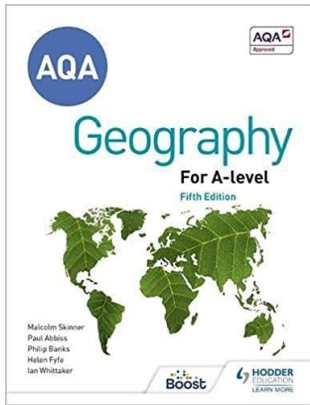


Year 12 Geography Curriculum Map



The teachers at RMGS will be unable to teach lessons in school as well as monitor students who are self-isolating. Please read through the curriculum map and use your textbook / click on the suggested links. The key ideas are questions that you should be able to answer.

Textbook chapters will refer to the AQA A-Level Geography textbook that you received at the start of the course.

September - December

You study two topics concurrently – **Coasts** (Mrs Milne) and **Hazards** (Ms Waters)

Coastal Systems and landscapes

As well as your textbook the following website are helpful for overview notes and case study details. Also see any files uploaded to Teams.

<https://www.physicsandmathstutor.com/geography-revision/a-level-aqa/coastal-systems-landscapes/>

<https://www.alevelgeography.com/coasts/>

<https://www.tutor2u.net/geography/collections/a-level-geography-notes-physical-coasts>

<https://www.hoddereducation.co.uk/media/Documents/Need%20to%20Know/AQA-A-level-Geography-Need-to-Know-sample-pages.pdf>

Coastal Systems and landscapes	Book Reference
Coasts as natural systems	
Systems in physical geography: Systems concepts and their application to the development of coastal landscapes: inputs-outputs, energy, stores/components, flows/transfers, positive/negative feedback, dynamic equilibrium.	Chp.3 – 3.1
The concepts of landform and landscape and how related landforms combine to form characteristic landscapes. Different types of coast.	Chp.3 – 3.1
Systems and processes	
Sources of energy in coastal environments: winds, waves (constructive and destructive), currents and tides. Low energy and high energy coasts.	Chp.3 – 3.2
Sediment sources, cells and budgets.	Chp.3 – 3.2
Sub-aerial processes of weathering and mass movement; run-off.	Chp.3 – 3.2
Marine processes: erosion – hydraulic action, wave quarrying, corrosion/abrasion, cavitation, solution, attrition; transportation: traction, suspension (longshore/littoral drift) and deposition.	Chp.3 – 3.2
Coastal landscape development	
Origin and development of landforms and landscapes of coastal erosion: Cliffs and wave cut platforms, cliff profile features including caves, arches and stacks and stumps; blowholes and geos.	Chp.3 – 3.3
Origin and development of landforms and landscapes of coastal deposition. Beaches, spits, tombolos, offshore bars, barrier beaches and islands and sand dunes.	Chp.3 – 3.3
Estuarine mudflat/saltmarsh environments and associated landscapes; factors and processes in their development.	Chp.3 – 3.3
Eustatic, isostatic and tectonic sea level change: major changes in sea level in the last 10,000 years.	Chp.3 – 3.3

Coastlines of emergence and submergence. Origin and development of associate landforms: raised beaches, marine platforms; rias, fjords, Dalmatian coast.	Chp.3 – 3.3
Recent and predicted climatic change and potential impact on coasts. Canvey Island / Thames Estuary.	Chp.3 – 3.3
Coastal management	
Traditional approaches to coastal flood and erosion risk: hard and soft engineering.	Chp.3 – 3.4
Sustainable approaches to coastal flood risk and coastal erosion management: shoreline management/integrated coastal zone management.	Chp.3 – 3.4
Case studies of coastal environments at a local scale to illustrate and analyse fundamental coastal processes, their landscape outcomes as set out above and engage with field data and challenges represented in their sustainable management. Dorset and Holderness.	Chp.3 – 3.4 and 3.5
Case study of a contrasting coastal landscape beyond the UK to illustrate and analyse how it presents risks and opportunities for human occupation and development and evaluate human responses of resilience, mitigation and adaption. The Sundarbans.	Chp.3 – 3.4 and 3.5

Hazards

As well as your textbook the following website are helpful for overview notes and case study details. Also see any files uploaded to Teams.

<https://www.physicsandmathstutor.com/geography-revision/a-level-aqa/hazards/>

<https://www.tutor2u.net/geography/collections/a-level-notes-physical-hazards>

<https://geography-revision.co.uk/a-level/physical/the-concept-of-hazard-in-a-geographical-context/>

https://www.hoddereducation.co.uk/media/Documents/Geography/AQA-A-level-Geog-Ch5-Hazards.pdf?utm_campaign=1395579_Geography%20eUpdate%20-%20New%20GCSE%20and%20A-level%20resources%20available%20this%20month%2012.07.16&utm_medium=email&utm_source=Hodder%20Hachette%20&dm_i=2DQY

Hazards	Book Reference
Nature, forms and potential impacts of natural hazards (geophysical, atmospheric and hydrological).	Chp.5 – 5.1
Hazard perception and its economic and cultural determinants.	Chp.5 – 5.1
Characteristic human responses – fatalism, prediction, adjustment/adaptation, mitigation, management, risk sharing – and their relationship to hazard incidence, intensity, magnitude, distribution and level of development.	Chp.5 – 5.1
The Hazard Management Cycle.	Chp.5 – 5.1
Earth structure and internal energy sources. Plate tectonic theory of crustal evolution.	Chp.5 – 5.2
Destructive, constructive and conservative plate margins. Characteristic processes: seismicity and vulcanicity. Associated landforms: young fold mountains, rift valleys, ocean ridges, deep sea trenches and island arcs, volcanoes.	Chp.5 – 5.2
The nature of vulcanicity and its relation to plate tectonics: forms of volcanic hazard. Spatial distribution, randomness, magnitude, frequency, regularity & predictability of events.	Chp.5 – 5.3
Impacts of volcanic events.	Chp.5 – 5.3
Short and long-term responses to volcanic events	Chp.5 – 5.3
Impacts and human responses as evidenced by a recent volcanic event.	Chp.5 – 5.3
The nature of seismicity and its relation to plate tectonics: forms of seismic hazard. Spatial distribution, randomness, magnitude, frequency, regularity, predictability of hazard events.	Chp.5 – 5.4
Impacts of seismic events	Chp.5 – 5.4
Short and long-term responses to seismic events	Chp.5 – 5.4
Impacts and human responses as evidenced by a recent seismic event.	Chp.5 – 5.4

The nature of tropical storms and their underlying causes. Forms of storm hazard. Spatial distribution, magnitude, frequency, regularity, predictability of hazard events.	Chp.5 – 5.5
Impacts of tropical storms.	Chp.5 – 5.5
Short and long-term responses to tropical storms.	Chp.5 – 5.5
Impacts and human responses as evidenced by two recent tropical storms in contrasting areas of the world.	Chp.5 – 5.5
Nature of wildfires. Conditions favouring intense wild fires. Causes of fires: natural and human agency.	Chp.5 – 5.6
Impacts of wildfires	Chp.5 – 5.6
Short and long-term responses to wildfires	Chp.5 – 5.6
Impact and human responses as evidenced by a recent wild fire event.	Chp.5 – 5.6
Case study of a multi-hazardous environment beyond the UK to illustrate and analyse the nature of the hazards and the social, economic and environmental risks presented, and how human qualities and responses such as resilience, adaptation, mitigation and management contribute to its continuing human occupation.	Chp.5
Case study at a local scale of a specified place in a hazardous setting to illustrate the same features as the previous case study	Chp.5

January to April

You study two topics concurrently – **Water and Carbon cycles** (Mrs Milne) and **Changing Places** (Ms Waters)

Water and Carbon Cycles

As well as your textbook the following website are helpful for overview notes and case study details. Also see any files uploaded to Teams.

<https://www.physicsandmathstutor.com/geography-revision/a-level-aqa/water-and-carbon-cycles/>

<https://www.tutor2u.net/geography/collections/a-level-geography-physical-water-carbon-cycles>

https://www.coolgeography.co.uk/advanced/water_carbon_cycles.php

<https://geography-revision.co.uk/a-level/physical/carbon-cycle/>

Water and carbon cycles as natural systems	Book reference
Systems concepts and their applications to the water and carbon cycles inputs-outputs, energy, stores/components, flows/transfers, positive/negative feedback, dynamic equilibrium.	Chp.1 – 1.1
The Water Cycle	
Global distribution and size of major stores of water – lithosphere, hydrosphere, cryosphere and atmosphere.	Chp.1 – 1.2
Processes driving change in the magnitude of these stores over time and space, including flows and transfers: evaporation, condensation, cloud formation, causes of precipitation and cryospheric processes at hill slope, drainage basin and global scales with reference to varying timescales involved.	Chp.1 – 1.2
Drainage basins as open systems – inputs and outputs, to include precipitation, evapotranspiration and runoff; stores and flows, to include interception, surface, soil water, groundwater and channel storage; stemflow, infiltration overland flow, and channel flow. Concept of water balance.	Chp.1 – 1.2
Runoff variation and the flood hydrograph. River regimes.	Chp.1 – 1.2

Changes in the water cycle over time to include natural variation (including storm events, seasonal changes) and human impact (including farming practices, land use change and water abstraction).	Chp.1 – 1.2
The Carbon Cycle	
Global distribution and size of major stores of carbon – lithosphere, hydrosphere, cryosphere biosphere, atmosphere.	Chp.1 – 1.3
Factors driving change in the magnitude of these stores over time and space, including flows and transfers at plant, sere and continental scales. Photosynthesis, respiration, decomposition, combustion, burial, compaction, carbon sequestration in oceans and sediments, weathering.	Chp.1 – 1.3
Changes in the carbon cycle over time, to include natural variation (including wild fires, volcanic activity) and human impact (including hydrocarbon fuel extraction and burning, farming practices, deforestation, land use changes).	Chp.1 – 1.3
The carbon budget and the impact of the carbon cycle upon land, ocean and atmosphere, including global climate.	Chp.1 – 1.3
Water, carbon, climate and life on Earth	
The key role of the carbon and water stores and cycles in supporting life on Earth and particular reference to climate. The relationship between the water cycle and carbon cycle in the atmosphere. The role of feedbacks within and between cycles and their link to climate change and implications for life on Earth.	Chp.1 – 1.4
Human interventions in the carbon cycle designed to influence carbon transfers and mitigate the impacts of climate change.	Chp.1 – 1.4
Case study of a tropical rainforest setting to illustrate and analyse key themes in water and carbon cycles and their relationship to environmental change and human activity.	Chp.1 – 1.4
Case study of a river catchment(s) at a local scale to illustrate and analyse the key themes above, engage with field data and consider the impact of precipitation upon drainage basin stores and transfers and implications for sustainable water supply and/or flooding.	Chp.1 – 1.4

Changing Places

As well as your textbook the following website are helpful for overview notes and case study details. Also see any files uploaded to Teams.

<https://www.physicsandmathstutor.com/geography-revision/a-level-aqa/changing-places/>

https://www.coolgeography.co.uk/advanced/changing_places.php

<https://www.tutor2u.net/geography/reference/study-notes?level=3000&board=2993&q=changing+places>

Changing Places	Book reference
The concept of place and the importance of place in human life and experience. Insider and outsider perspectives on place.	Chp.8 – 8.1
Describe and explain insider and outsider perspectives on place.	Chp.8 – 8.1
Categories of place (near/far), (experienced/media)	Chp.8 – 8.1
Factors contributing to the character of places (endogenous: location, topography, physical geography, land use, built environment and infrastructure, demographic and economic characteristics / exogenous: relationships with other places)	Chp.8 – 8.1
Study the local place within which students live or study encompassing local, regional, national, international and global scales	Chp.8 – 8.
Study at least one contrasting place encompassing local, regional, national, international and global scales	

The impact of relationships and connections on people and place with a particular focus on either changing demographic & cultural characteristics OR economic change & social inequalities	Chp.8 – 8.2
How the demographic, socio-economic and cultural characteristics of places are shaped by shifting flows of people, resources, money and investment, and ideas at all scales from local to global	Chp.8 – 8.2
The importance of the meanings and representations attached to places by people with a particular focus on people's lived experience of place in the past and at present.	Chp.8 – 8.3
How humans perceive, engage with and form attachments to places	Chp.8 – 8.3
How external agencies, including government, corporate bodies and community or local groups make attempts to influence or create specific place-meanings	Chp.8 – 8.3
How places may be represented in a variety of different forms that often give contrasting images to that presented formally or statistically	Chp.8 – 8.4
How both past and present processes of development can be seen to influence the social and economic characteristics of places and so be implicit in present meanings.	Chp.8 – 8.4
Examine the importance of the meanings and representations attached to places by people with a particular focus on people's lived experience of place in the past and at present.	Chp.8 – 8.4
Examine how humans perceive, engage with and form attachments to places and how they present and represent the world to others, including the way in which everyday place meanings are bound up with different identities, perspectives and experiences.	Chp.8 – 8.4
Examine how external agencies, including government, corporate bodies and community or local groups make attempts to influence or create specific place-meanings and thereby shape the actions and behaviours of individuals, groups, businesses and institutions.	Chp.8 – 8.4
Evaluate how places may be represented in a variety of different forms such as advertising copy, tourist agency material, local art exhibitions in diverse media (e.g. film, photography, art, story, song etc) that often give contrasting images to that presented formally or statistically such as cartography and census data.	Chp.8 – 8.4
Examine how both past and present processes of development can be seen to influence the social and economic characteristics of places and so be implicit in present meanings	Chp.8 – 8.4
Describe and examine a local place study exploring the developing character of a place local to the home or study centre.	Chp.8 – 8.5
Complete a contrasting place study to explore the developing character of a contrasting and distant place.	Chp.8 – 8.5

May to July

You will carry out fieldwork and complete your NEA worth 20% of your Geography A-Level.

See the following links and our Moodle page for all the resources you will need.

<https://moodle.rainhammark.com/course/view.php?id=561> Scroll down to the independent investigation / NEA section

<https://www.rgs.org/CMSPages/GetFile.aspx?nodeguid=882a6e79-5e28-4667-a753-17d26cec8c19&lang=en-GB>