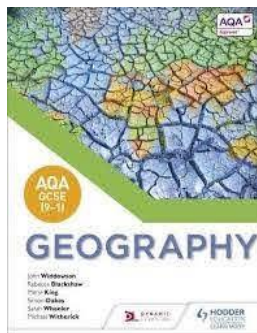


Year 10 Geography Curriculum Map 2020-2021

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 click on the suggested links. The key ideas are key words or questions that you may choose to research in more detail.



Textbook pages will refer to the AQA Geography textbook that you should have received at the start of the year.

November - December

Lesson overview		Key ideas	Suggested reading and links to websites
1	Introduction to Ecosystems	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. What are ecosystems? 2. What are trophic levels? 3. What are nutrient cycles? <p>Create a small fact file for the following: Case study: Epping forest.</p>	<p>Read pages 58-61</p> <p>Oak academy:< https://classroom.thenational.academy/units/understanding-ecosystems-3b24 >. [3] Lessons.</p>
2	Changes affecting ecosystems	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. How do humans affect ecosystems? 2. Explain how climate change affects ecosystems. <p>Create a small fact file for the following: Case study: Reintroduction of wolves to Yellowstone national park.</p>	<p>Read pages 62-63</p> <p>How Wolves Change Rivers:< https://www.youtube.com/watch?v=y5a50BhXz-Q>.</p>
3	Biomes	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Define biomes 2. What are the different biomes? 3. Create a small fact file on the different biomes. 4. Include a global biome map 5. How do the biomes differ from each other? 	<p>Read pages 64-65</p>

			BIOMES - Elementary Educational & Informational Earth Science Video: < https://www.youtube.com/watch?v=vWE2xDur4dw >.
4	Tropical rainforests	<u>Answer the following questions:</u> <ol style="list-style-type: none"> 1. Where are tropical rainforests found? E.g., Latitude, countries etc. 2. What are the key characteristics of this biome? 3. What is interdependence? 4. What is biodiversity? 	Read pages 66-67 Oak academy: < https://classroom.thenational.academy/units/tropical-rainforests-662a >. [11] Lessons.
5	Adaptations to tropical rainforests	<u>Answer the following questions:</u> <ol style="list-style-type: none"> 1. How have the flora and fauna adapted to the tropical rainforest? <p>Create a fact file and research some of the flora and fauna of the rainforest.</p>	Read pages 68-69. Rainforests Geography - Ecosystems and Biomes: < https://www.youtube.com/watch?v=UlbplCn8-zs >.
6	Deforestation of the tropical rainforest	<u>Answer the following questions:</u> <ol style="list-style-type: none"> 1. Define deforestation. 2. Explain how the rate of deforestation is changing around the world. 3. Summarise the causes of deforestation. 4. What are the impacts of deforestation? <p>Create a fact file on your case study: Deforestation in Brazil</p>	Read pages 70-75 Amazon Deforestation - BBC News: < https://www.youtube.com/watch?v=nYInoxgqEWO >.
7	Strategies for managing the tropical rainforest	<u>Answer the following questions:</u> <ol style="list-style-type: none"> 1. Explain the value of the tropical rainforest. 2. What are ecosystem services? 3. How can international agreements protect the rainforest? 4. How can education protect the rainforest? 5. What can national governments do to protect the rainforest? 	Read pages 76-81 Agroforestry in Brazil!: < https://www.youtube.com/watch?v=0GIVlckDLI >.

		6. What is the difference between conservation and protection? 7. Describe local level strategies to protect the rainforest e.g. Agroforestry.	
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November - December

Lesson overview		Key ideas	Suggested reading and links to websites
1	Global atmospheric circulation	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> Describe the distribution of the world's climate zones. Define isolation. Explain how insolation varies with latitude. Define jet streams. What are the three main convection cells called? Explain how global pressure and surface winds influence precipitation. 	<p>Read pages 22-23</p> <p>What is global circulation? Part One Differential heating:< https://www.youtube.com/watch?v=7fd03fBRsuU>.</p>
2	The global distribution of tropical storms	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> Explain the distribution of tropical storms. What are the different names given to tropical storms across the world? Explain the formation of tropical storms. Find an image of a tropical storm. Then try to learn the structure and key features. What is the Coriolis effect? What direction do tropical storms travel? Explain what happens to tropical storms as they pass over land. 	<p>Read pages 24-27</p> <p>What are hurricanes, typhoons and tropical cyclones? :< https://www.youtube.com/watch?v=SSx_gisp24w>.</p>

3	Climate change and tropical storms	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Explain how tropical storms will be affected by climate change. 	<p>Read pages 28-29</p> <p>Is climate change causing more extreme weather? - BBC Newsnight:< https://www.youtube.com/watch?v=wsSxopt_Kn8>.</p>												
4	The effects and responses to tropical storms	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Create a table: Effects <table border="1"> <tr> <td>Social</td> <td>Environmental</td> <td>Economic</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> 2. Write down the effects of tropical storms in the table. Make sure you include facts or figures for each column. 3. Create a table: Responses <table border="1"> <tr> <td>Social</td> <td>Environmental</td> <td>Economic</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> 4. Can you colour code these into primary and secondary? 5. What is the Saffir-Simpson hurricane wind scale? Write a small summary. <p>Case study: Typhoon Haiyan</p>	Social	Environmental	Economic				Social	Environmental	Economic				<p>Read pages 30-33</p> <p>The Earth's Biggest Super Typhoon:< https://www.youtube.com/watch?v=2DxYbnWmM-0>.</p>
Social	Environmental	Economic													
Social	Environmental	Economic													
5	Reducing the effects of tropical storms	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Explain how tropical storms are monitored. 2. Can you predict or protect against tropical storms? 3. Can planning reduce the risks of tropical storms? 	<p>Read pages 34-35</p> <p>How Scientists Fly Into Category 5 Hurricanes to Track and Predict Storms WIRED:< https://www.youtube.com/watch?v=I0WiYm7NrnM&t=5s>.</p>												
6	Extreme weather hazards in the UK	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. What types of weather hazards does the UK have? 2. How can we manage the risks posed by these extreme weather events? 	<p>Read pages 36-43</p> <p>CASE STUDY AQA GCSE Geog 2009 Cumbria floods:< https://www.youtube.com/watch?v=J5RZisyaGtA>.</p>												

		<p>3. Explain how the UK will be affected in the future by extreme weather events. What evidence is there?</p> <p>Case study: Cumbrian floods</p>	
7	Climate change	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Define climate change and 'epoch'. 2. When was the quaternary period? 3. What is the evidence for climate change? 4. Define proxy data. Give examples. 5. Explain how climate change is a natural phenomenon. 6. Explain how climate change is caused by humans. 7. What is the enhanced greenhouse effect? 8. Explain how different areas around the world will be affected by climate change. 9. How can we manage climate change? 10. What is the difference between mitigation and adaptation? 	<p>Read pages 44- 55</p> <p>Causes and Effects of Climate Change National Geographic:< https://www.youtube.com/watch?v=G4H1N_yXBIA>.</p> <p>Climate change - the evidence and the impacts:< https://www.youtube.com/watch?v=wF0KkTrwUu0>.</p>

January- February

Lesson overview		Key ideas	Suggested reading and links to websites
1	Hot desert environments	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 7. Describe the location of deserts around the world. 8. Describe the climate and soils of the desert biome. 	Read pages 82-83

			<p>Deserts 101 National Geographic:< https://www.youtube.com/watch?v=n4crvs-KTBw>.</p> <p>Deserts Geography - Ecosystems and Biomes:< https://www.youtube.com/watch?v=2QdlF6Ld1oc&t=7s>.</p>
2	Biodiversity in deserts	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Explain how the flora and fauna have adapted to desert environments. 2. Define Xerophytes. 3. Explain interdependence in deserts. 	<p>Read pages 84-85</p> <p>Desert Adaptations:< https://www.youtube.com/watch?v=TIbpYeuVKpl>.</p> <p>Terrific Scientific: How animals adapt to their environment BBC Teach Live Lesson:< https://www.youtube.com/watch?v=7KoRVGS8stk>.</p>
3	Development opportunities in deserts	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Create a fact file on your case study: Western desert. 2. Describe the location of the Western desert. 3. Summarise the types of development opportunities found there. 	<p>Read pages 86-87</p> <p>The 4 Major Deserts of North America:< https://www.youtube.com/watch?v=Y-s2cGwRUZM>.</p>
4	Development challenges in deserts	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. What are some of the key challenges in deserts which prevent development? 2. What is carrying capacity? 3. How have people adapted to the climate? 4. Describe the water crisis in the western desert. E.g. Colorado river and Hoover dam. 5. Define water security. 	<p>Read pages 86-91</p> <p>New Hoover Dam National Geographic:< https://www.youtube.com/watch?v=D7_rz0jvKdE>.</p>
5	Desertification	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Define desertification 2. What parts of the world are at risk of desertification. 3. How does climate change and drought lead to desertification? 	<p>Read pages 92-97.</p>

		<p>4. How can people cause desertification?</p> <p>5. How can desertification be prevented or managed?</p>	<p>Action Against Desertification:< https://www.youtube.com/watch?v=qVcMSeXZnJI>.</p> <p>Why is Africa building a Great Green Wall? BBC News:< https://www.youtube.com/watch?v=4xls7K_xFBQ>.</p>
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March- April

Lesson overview		Key ideas	Suggested reading and links to websites
1	The physical diversity of the UK	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> Where are uplands and lowlands of the UK? What is the Tees-Exe line? 	<p>Read pages 116-117</p> <p>Oak academy:< https://classroom.thenational.academy/units/major-landscapes-of-the-uk-4974>. [1] Lesson.</p>
2	Coastal landscapes: Waves	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> What are waves? Draw a small diagram of a wave and label the key parts. Split an A4 page in half and compare the two types of waves: Constructive and destructive. Include a diagram. 	<p>Read pages 118-119</p> <p>Oak academy:< https://classroom.thenational.academy/units/coasts-efff>. [15] lessons.</p>
3	Weathering and mass movement	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> Define weathering. Explain the two types of weathering: Chemical and Mechanical (physical). Explain and compare the different types of mass movement e.g., Sliding and rockfalls. 	<p>Read pages 120-121 5 mins<</p> <p>GCSE (9-1) Geography - Erosion, Weathering, and Mass Movement:< https://www.youtube.com/watch?v=w-w-pAtRRTU>.</p>
4	Marine processes	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> Explain what hydraulic action, abrasion and attrition are. How is material transported along beaches? What is longshore drift? 	<p>Read pages 112-125</p>

		<p>4. What is deposition?</p> <p>Case study: Dorset coast: Write a small summary of the geology and landforms on the coastline.</p>	<p>The 4 coastal processes of erosion with timeforgeography.co.uk:< https://www.youtube.com/watch?v=TYQ--nTcNU8&t=19s>.</p>
5	Coastal landforms	<p><u>Answer the following questions:</u> Explain how the following features are formed (Include a small diagram):</p> <ol style="list-style-type: none"> 1. Headlands and bays 2. Cliffs and wave cut platforms 3. Caves, arches, stacks & stumps 4. Beaches- sandy and pebble 5. Sand dunes 6. Spits and bars 	<p>Read pages 126 –137</p> <p>Landforms Coasts (GCSE Geography):< https://www.youtube.com/watch?v=ZWEJq03NBao&t=439s></p>
6	Coastal management	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Why does the coast need to be protected? 2. What are hard engineering strategies? Give an overview. 3. What are soft engineering strategies? Give an overview. 4. Research the costs and benefits of each type. Create a key: Social, economic & environmental. <p>Case study: Coastal realignment in Medmerry.</p>	<p>Read pages 138- 147</p> <p>GCSE (9-1) Geography - Coastal Management:< https://www.youtube.com/watch?v=6bdTRMyFJqE>.</p>

May- July

Lesson overview		Key ideas	Suggested reading and links to websites
1	<p>River landscapes Fluvial processes Erosion, transportation and deposition</p>	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Define erosion. 2. Write a small explanation on each type of erosion in rivers. Include a small diagram. 3. Write down each type of way material is transported in rivers. Include a small diagram. 4. What is the rivers load? 5. What is the Hjulstrom curve? 6. When does deposition occur? 	<p>Read pages 148-149</p> <p>Oak academy:< https://classroom.thenational.academy/units/rivers-ba2f>. [14] Lessons.</p>
2	<p>The rivers long profile</p>	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. Define the long profile 2. Explain what happens to the river in the upper, middle and lower course. 3. Define discharge and velocity. 	<p>Read pages 150-151</p> <p>Edexcel GCSE Geography - River System Characteristics:< https://www.youtube.com/watch?v=72My4_uh8bE>.</p>
3	<p>The cross-profile of a river</p>	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. What is a cross-profile? 2. Explain how the cross-profile changes along a river. 	<p>Read pages 152-153</p> <p>long and cross profiles of a river:< https://www.youtube.com/watch?v=Ga1n3CmJcfw>.</p>
4	<p>Features of the upper course</p>	<p><u>Answer the following questions:</u> You need to include a diagram and explanation for the following features:</p> <ol style="list-style-type: none"> 1. Interlocking spurs 2. Waterfalls and gorges 3. Rapids 	<p>Read pages 154- 157</p> <p>What types of Landforms are made by Rivers? :< https://www.youtube.com/watch?v=XJ_FNS8Z_ek>.</p>
5	<p>Features of the middle course</p>	<p><u>Answer the following questions:</u> You need to include a diagram and explanation for the following features:</p> <ol style="list-style-type: none"> 4. Meanders 5. Ox-bow lakes 6. Levees 7. Floodplains 	<p>Read pages 158- 161</p>

6	Features of the lower course	<p><u>Answer the following questions:</u> You need to include a diagram and explanation for the following features:</p> <ol style="list-style-type: none"> 8. Estuaries 9. Mudflats 10. Deltas 	Read pages 162- 163
7	The causes of flooding	<p><u>Answer the following questions:</u></p> <p>Physical</p> <ol style="list-style-type: none"> 1. What is the hydrological cycle? Define all the key words. 2. How can heavy rain affect flooding? 3. How can geology increase flood risk? <p>Human How can people increase the risk of flooding?</p>	Read pages 164-167
8	Hydrographs	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. What is a hydrograph? 2. Define each part of a hydrograph. 3. What is the difference between a flashy and slow response hydrograph? What causes these differences? 	<p>Read pages 168-169</p> <p>The Flood/Storm Hydrograph River Discharge GCSE A Level Geography Revision:< https://www.youtube.com/watch?v=gb9JvFfo3vc>.</p>
9	River management strategies	<p><u>Answer the following questions:</u></p> <ol style="list-style-type: none"> 1. How are rivers managed? 2. Write down the costs associated with managing rivers. <p>Case study: Jubilee river flood-relief channel.</p>	<p>Read pages 170-177</p> <p>RIVER MANAGEMENT STRATEGIES - AQA GCSE 9-1 Geography 2020:< https://www.youtube.com/watch?v=AX1i5uJ50qM>.</p>