

Topic 2 Weather: Part of the physical exam worth 37.5%. The exam is 1 hour 30 minutes. Part of Section B in the Exam.	Green	Amber	Red
Describe the features of the global atmospheric circulation.			
Explain how circulation and ocean currents transfer and redistribute heat energy across the earth			
Define: Hadley Cell			
Explain how climate has changed over different time scales: Glacial and interglacial periods during the quaternary period			
Define: Glacial, Interglacial, quaternary period			
Explain the natural causes of climate change			
Define: Milankovich cycles, solar variation, volcanism, ice cores, pollen records, tree rings, historical sources			
Explain the human activities that produce greenhouse gases to cause the enhanced greenhouse effect. (Industry, transport, energy, farming,			
Define: Industry, transport, energy, farming, carbon dioxide, methane, enhanced greenhouse effect, natural greenhouse effect.			
Explain the negative effects that climate change is having on the environment and people (Changing patterns of crop yield, rising sea levels and retreating glaciers)			
Describe the climate of UK today and the changes over the last 1000 years.			
Describe the spatial variation in temperature, prevailing wind and rainfall within the UK.			
Explain the significance of the UK's geographic location in relation to its climate.			
<b>Tropical Cyclones</b>			
Explain how the global circulation of the atmosphere leads to tropical cyclones (hurricanes and typhoons), in source areas.			
Explain the formation of tropical cyclones.			
Describe the characteristics, frequency and geographical distribution of tropical cyclones and how these change over time.			
Explain the reasons why tropical cyclones are natural weather hazards.			
Define: High winds, intense rainfall, storm surges, coastal flooding and landslides			
Analyse the different social, economic and environmental impacts that tropical cyclones can have on A NAMED DEVELOPED and NAME EMERGING OR DEVELOPING country.			
Analyse and assess the response to tropical cyclones by individuals, organisations and governments in A NAMED DEVELOPED and NAME EMERGING OR DEVELOPING country			
<b>Droughts</b>			
Describe the characteristics of arid environments compared to the extreme weather condition associated with drought.			
Explain the different causes of the weather hazard of drought; meteorological, hydrological, human (agricultural, dam building and deforestation)			
Explain why the global circulation makes some locations more vulnerable to drought as a natural hazard than others and this changes over time.			
Explain why droughts are hazardous.			
Analyse and assess the impact of drought on people and ecosystems can vary for A NAMED DEVELOPED and NAME EMERGING OR DEVELOPING country			
Analyse and assess the different responses to drought from individuals, organisations and governments in A NAMED DEVELOPED and NAME EMERGING OR DEVELOPING country			
<b>Skills</b>			
Use and interpret line graphs/bar charts showing climate change.			
Use GIS to track the movement of storms.			
Use weather and storm surge data to calculate the Saffir Simpson Magnitude			
Use of a social media source, satellite images and socio-economic data to assess impact			
Use and interpret graphs showing medium term rainfall trends.			
Use and interpret socio-economic data.			