



Year 11 Revision Guide

Geography

Assessment 1 & 2 (April/May 2021)
Compulsory Topics

Topic: Global Hazards

Weather

- Global atmospheric circulation model including low and high pressure belts
- How the global circulation of the atmosphere leads to extreme weather conditions in different parts of the world
- Extreme weathers – wind, temperature and rainfall in contrasting countries
- Distribution and frequency of tropical storms and drought
- Causes, effects and management of tropical storms – Typhoon Haiyan

Tectonic

- Structure of the Earth including how tectonic plates move e.g. convection currents
- Distribution of earthquakes and volcanoes
- Processes that occur at collision, conservative, destructive and constructive plate boundaries
- How earthquakes and volcanoes are caused at different plate boundaries
- Case study – Iceland or Mt Etna – causes, effects and responses
- How technology mitigates the impact of tectonic activity – predict, plan and prepare.

Topic: Resource Reliance

- Factors that lead to demand outstripping supply of food, water & energy
- How ecosystems are used & modified by humans – mechanisation of farming, commercial fishing for food, deforestation & mining for energy, reservoirs and water transfer schemes.
- What is food security and the human and physical factors that influence it
- Global Patterns of food security
- Malthus v Boserup theories of relationship between population and food supply
- Goat aid – local attempt to improve food security in Tanzania
- National attempt to improve food security (Wheat or SAGCOT, Tanzania), (Food banks, UK)
- Environmental, economic and social sustainability of attempts to achieve food security including ethical consumerism and technological strategies such as GM crops and hydroponics.

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Optional Topics (Answer only 1 topic from the following)

Topic: Urban Futures

- How urban growth rates vary around the world and in contrasting levels of development
- World cities and megacities and changing distribution since 1950
- Causes of rapid urbanisation in LIDCs, push & pull factors, rural – urban migration and internal growth.
- What are the consequences of rapid urban growth
- AC city – Birmingham, UK
- LIDC city – Lagos, Nigeria
- For both case studies you'll need:
 - Location and importance in region, national and wider world
 - National and international migration
 - Ways of life in city e.g. culture, housing, leisure
 - Challenges (AC) – housing, transport, access to services, inequality etc.
 - Challenges (LIDC) – slums, informal job sector, health, wealth disposal.
- One initiative for both cities on how it is trying to be sustainable e.g. food waste, transport.

Topic: UK in the 21st Century

- Human and physical geographical features of the UK – population density, land use, rainfall and relief and issues relating to this e.g. water stress and housing shortages.
- How population has changed over time – Population Pyramids and DTM
- Ageing population – causes, effects and responses
- Population structure and ethnic diversity of a named place – Boston, Lincolnshire
- Major economic changes since 2001, changing employment sectors, political priorities etc.
- UK's role in a global conflict – Somalia or Ukraine
- UK's media exports and global influence – TV, programmes and film
- Contribution of ethnic groups to cultural life in UK – Balti Triangle

Topic: Sustaining Ecosystems

- Concept of an ecosystem as interdependent (soil, climate, water, animals, plants).
- Global distribution of ecosystems and characteristics of them e.g. coral reefs, savanna, polar regions, temperate and tropical forests, hot deserts
- Tropical rainforests – climate, nutrient cycle, soil profile & water cycle
- Human impacts – logging, agriculture, mining and tourism
- Case study to show sustainable management – Crocker Range
- Polar regions – characteristics, features of land and sea, flora & fauna
- Interdependence of climate, soil, water, plants and human activity
- Human impacts – scientific research, tourism, fishing
- Small scale example of sustainable management- Union Glacier

Topic: Changing Climate

- Pattern of climate change from start of quaternary period to present day
- Evidence of climate change (past and present) – sea ice position, ice cores, global temperature data, paintings & diaries
- Causes of natural climate change – Milankovitch Cycles, Volcanic eruptions and sunspots
- Natural greenhouse effect, human impacts and enhanced greenhouse effect
- Social, economic and environmental impacts of climate change around the world from sea level rise and extreme weather events – Tuvalu
- Social, economic and environmental impacts of climate change within the UK such as impact of weather patterns, seasonal changes & changes in industry – Flooding & heatwaves etc.