

Y10 Geography revision

You will be examined on all of the material we have covered for Paper 1 'Living with the Physical Environment. So that means you need to revise

- The challenge of natural hazards
- The Living World
- Physical landscapes in the UK
- Skills

The exam will last 90 minutes

The challenge of natural hazards

Learn

- What a natural hazard is and examples
- The factors that affect hazard risk
- The structure of the earth
- Plate tectonic theory – the plates, distribution of plates
- How and why tectonic plates move
- Chile earthquake (RICH) – cause, effects and responses (learn and use key terms primary and secondary effects, immediate and long term responses)
- Nepal earthquake (POOR) – cause, effects and responses
- Why people live in areas of tectonic risk
- What can be done to reduce the risk of tectonic hazards – monitoring, prediction, protection and planning
- Global atmospheric circulation and its effect on weather and climate
- Tropical storms – what they are, where they happen and how they form
- What they are like
- How climate change will affect tropical storms in terms of distribution, frequency and intensity
- Typhoon Haiyan – causes, effects (primary and secondary) and responses (immediate and long term)
- How we can reduce the effects of tropical – protection and planning
- Weather hazards in the UK – thunderstorms, prolonged rainfall, drought and extreme heat, heavy snow and extreme cold, strong winds
- Why is our weather becoming more extreme
- The Somerset Levels Floods, 2014 – location, causes, impacts (social, economic and environmental) and responses (immediate and long term)
- Climate change – the evidence, natural and human causes, management

The Living World

Learn

- A small scale ecosystem
- The distribution of biomes in the world and why they are there (link to Global Atmospheric Circulation model)
- How change affects ecosystems
- The location of TRFs
- The appearance and characteristics of tropical rainforests (TRFs)
- Plant and animal adaptations in the TRF
- What's happening to the TRF – causes of deforestation
- The impacts/ consequences of deforestation
- How TRFs can be managed – selective logging, conservation and education, ecotourism, International Agreements and debt reduction
- The Amazon – case study!
- Characteristics of cold environments – polar and tundra (climate, soils, flora and fauna)
- How vegetation adapts
- Opportunities for development in Svalbard, Norway
- The challenges Svalbard faces
- Why cold environments are so fragile and why they need to be protected
- How cold environments can be managed – the use of technology, Government action, International Agreements and Conservation groups

And

Physical landscapes in the UK

Learn

- The UK's relief and landscapes – visualise it!
- Waves – constructive and destructive and what happens when waves reach the coast
- Weathering and mass movement
- Coastal erosion – abrasion, attrition, hydraulic power, solution and corrosion
- Coastal transportation – swash and backwash, traction, saltation, solution and suspension and longshore drift
- Why coastal deposition happens and where
- Coastal erosional landforms – headlands and bays, cliffs, wave cut notches & platforms, caves, arches, stacks and stumps (be able to sketch with confidence)
- Coastal depositional landforms – sand and shingle beaches, bars, spits, and sand dunes (be able to sketch formation)
- Swanage
- Managing the coast hard v soft engineering costs and benefits of each strategy
- Coastal management at Lyme Regis

- Drainage basins
- Long and cross profiles of a river
- River erosion – vertical and lateral erosion, attrition, abrasion, hydraulic action and solution
- River transportation – traction, saltation, solution and suspension
- Deposition and where it occurs along a river
- River erosional landforms – v shaped valleys, waterfalls and gorges and interlocking spurs (be able to use sketches in your answer)
- Meanders and oxbow lakes – erosional and depositional landform (be able to produce sketches)
- Levees, floodplains and estuaries (depositional landforms)
- The River Tees
- What is flooding and causes (human and physical causes)
- Hydrograph – what is one? What affects its shape?
- Hard engineering – costs and benefits
- Soft engineering – costs and benefits
- Flood management - Banbury