

Topic

Topic 5: Global

**The concept of
hazards in a
geographical
context**

Plate tectonics

Volcanic Hazards

Seismic Hazards

Storm Hazards

Fires in nature

Case studies

Specification

Hazards

Describe, explain and examine the nature, forms and potential impacts of natural hazards (geophysical, atmospheric and hydrological).

Explain hazard perception and examine its economic and cultural determinants.

Describe and explain characteristic human responses – fatalism, prediction, adjustment/adaptation, mitigation, management, risk sharing and examine their relationship to hazard incidence, intensity, magnitude, distribution and level of development.

Describe and explain the Park model of human response to hazards

Describe and explain The Hazard Management Cycle.

Describe and explain the earth structure and internal energy sources.

Describe, explain and examine the Plate tectonic theory of crustal evolution: Tectonic plates; plate movement; gravitational sliding; ridge push, slab pull; convection currents and seafloor spreading.

Describe and explain destructive, constructive and conservative plate margins.

Describe and explain the characteristic processes of seismicity and vulcanicity.

Describe and explain the formation of associated landforms: Young fold mountains, rift valleys, ocean ridges, deep sea trenches and island arcs, volcanoes.

Describe and explain the nature of vulcanicity and its relation to plate tectonics: Forms of volcanic hazard: Nuées ardentes, lava flows, mudflows, pyroclastic and ash fallout, gases/acid rain, tephra.

Describe and explain spatial distribution, randomness, magnitude, frequency, regularity and predictability of hazard events.

Describe, explain and compare impacts: Primary/secondary, environmental, social, economic, political.

Describe, explain and examine short and long-term responses: Risk management designed to reduce the impacts of the hazard through preparedness, mitigation, prevention and adaptation.

Iceland 2015 - Describe, examine and assess the impacts and human responses as evidenced by a recent volcanic event.
Montserrat 1997 - Describe, examine and assess the impacts and human responses as evidenced by a recent volcanic event.
Describe and explain the nature of seismicity and its relation to plate tectonics: Forms of seismic hazard: Earthquakes, shockwaves, tsunamis, liquefaction, landslides.
Describe and explain the spatial distribution, randomness, magnitude, frequency, regularity, predictability of hazard events.
Describe, explain and assess impacts of seismic hazards: Primary/secondary; environmental, social, economic, political. Short and long-term responses.
Examine and evaluate the risk management designed to reduce the impacts of the hazard through preparedness, mitigation, prevention and adaptation.
Christchurch (AC) - Describe, examine and assess the impacts and human responses as evidenced by a recent seismic event.
Haiti or Nepal (LIDC) - Describe, examine and assess the impacts and human responses as evidenced by a recent seismic event.
Describe and explain the nature of tropical storms and explore their underlying causes.
Examine , describe and explain forms of storm hazard: High winds, storm surges, coastal flooding, river flooding and landslides.
Describe the spatial distribution, magnitude, frequency, regularity and predictability of hazard events.
Describe, explain and assess the impacts of storm hazards: Primary/secondary, environmental, social, economic, political.
Describe, examine and assess the short and long-term responses: Risk management designed to reduce the impacts of the hazard through preparedness, mitigation, prevention and adaptation.
Hurricane Sandy (AC) -Describe, examine and assess the impacts and human responses as evidenced by two recent tropical storms in contrasting areas of the world.
Typhoon Haiyan (LIDC) - Describe, examine and assess the impacts and human responses as evidenced by two recent tropical storms in contrasting areas of the world.
Describe and explain the nature of wildfires.
Examine, describe and explain the conditions favouring intense wild fires: Vegetation type, fuel characteristics, climate and recent weather and fire behaviour.
Describe, examine and explain the causes of fires: Natural and human agency.
Describe, explain and assess the impacts: Primary/secondary, environmental, social, economic, political. Short and long-term responses; risk management designed to reduce the impacts of the hazard through preparedness, mitigation, prevention and adaptation.

Black Staturday Australian Bush fire - Describe, examine and assess the impact and human responses as evidenced by a recent wild fire event.

Japan 2011 - Examine a 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.

Storm Desmond 2015 - Examine a case study at a local scale of a specified place in a hazardous setting to illustrate the physical nature of the hazard and analyse how the economic, social and political character of its community reflects the presence and impacts of the hazard and the community's response to the risk.

AQA A Level Geography

CGP Revision Guide related Page	Seneca Quiz Name	Royal Geographical Society
Physical Topic - Paper 1		
pg 72	4.1.1 Natural impacts of Hazards	RGS Link
pg 72	4.1.2 Human Hazard perception	RGS Link
pg 72	4.1.2 Human Hazard perception. 4.1.3 Development & Governance. 4.14 Disaster Trends.	
pg 73	4.1.5 Human Hazard Management. 4.1.6 Human Modification of Events	
pg 73	4.1.5 Human Hazard Management. 4.1.6 Human Modification of Events	
pg 74	4.2.4 Theoretical Frameworks	
pg 75	4.2.1 Tectonic Plates 4.2.2 Tectonic Plates 2	
pg 76 and 77	4.2.1 Tectonic Plates 4.2.2 Tectonic Plates 2	
pg 76 and 77	4.2.3 The Global Distribution of Tectonic Hazards	RGS Link
pg 76 and 77	4.2.1 Tectonic Plates 4.2.2 Tectonic Plates 2	
pg 78	4.3.1 Forms of Volcanic Hazards	RGS Link
pg 79	4.3.2 Locations	
pg 80	4.3.3 Hazards Impacts.	rgslink
pg 80	4.3.4 Responses. 4.3.5 Risk Management	RGS Link

Pg 81		
pg 82	4.4.1 Earthquakes. 4.4.2 Hazards of Earthquakes. 4.4.3 Tsunamis	
pg 83	4.4.4 Locations of Earthquakes	rgs link
pg 84	4.4.5 Primary and secondary Hazards of Earthquakes	
pg 84	4.4.6 Immediate and Long term responses to Earthquakes. 4.4.7 Risk Management	
	4.4.8 - Gorkha Earthquake (Nepal	Nepal documentary
pg 86	4.5.1 Tropical Storms	
pg 86	4.5.1 Tropical Storms	
pg 86	4.5.1 Tropical Storms	
pg 87	4.5.2 Impacts	
pg 87	4.5.3 Responses	
pg 90	4.6.1 Nature of Wildfires	
pg 90	4.6.1 Nature of Wildfires	
pg 90	4.6.2 Causes of Wildfires	
pg 90 and 91	4.6.3 Impacts. 4.6.4 Responses	

Case study overview		RGS Link
	4.7.1 Case study: Tohoku, Japan	RGS Link

Wider reading/watching	Wider reading/watching
what are hazards	View current hazards
Hazards	
TED Talk	
Park Disaster model	
Time for Geography	
Reading	
Plate tectonics	
Time for Geography	
National Geographic	Magma Plumes
Time for Geography	
Time for Geography	
Time for Geography	

Case study	Time for Geography
Case study	
National Geographic	Hazards
Measurement	
Time for Geography	
Booklet on responses to Earthquakes	
Christchurch documentary part 1	Christchurch documentary part 2
Haiti Case Study	Haiti documentary
Tropical Storms	
Storm Hazards	
Categorise the impacts	
Prepared for storms	article
Case study	Documentary
Internet Geography	Documentary
Wildfires	
Wildfires	
Causes	Time for Geography
	Wildfire safety

BBC news article	Documentary
Case study	Case study
Case study	

Exam Questions

Name 3 types of natural hazards and give an example of each

Assess the extent to which people's perception of hazards is likely to affect their responses to them

Explain the 'rehabilitaion' stage of the Park Model

Briefly Outline the four stages of the Hazard Management Cycle

what is the difference between lithosphere and asthenosphere

Briefly outline the different theories of plate movement

Explain what happens when 2 continental plates meet

Which plate margins do Volcanoes not occur

Describe and explain how a chain islands are formed by magma plumes

Analyse the role of plate margins in influencing the risk posed to people by Volcanic Hazards

What is meant by the predictability of a Volcanic event

Analyse whether social impacts or environmental impacts are like to affect people lively next to active Volcanoes

Describe the difference between short and long term responses using examples

It is possible to manage and prepare for Volcanic eruptions. How far do you agree with this statement?

Explain how earthquakes can cause 2 other hazards

Briefly outline the differences between mercalli and Richter scale

Give three economic impacts of Seismic activity

Explain how development can impact how well areas are prepared and adapted to seismic activity

Assess whether secondary or primary impacts of seismic activity is more damaging

Describe the characteristics of a tropical storm

Briefly outline 2 hazards associated with tropical storms

Describe the conditions needed to create a tropical storm and why the UK does not get them

Outline 2 social impacts of Tropical Storms

Evaluate the role of adaption in reducing the impacts of tropical storms

The impacts of of tropical storms are always worse in Less Developed Countries. How far do you agree with this Satatement

Define what is meant by a Wildfire

Outline 3 of the conditions needed to create Wildfires

Desribe 2 Natural causes of Wildfires

Outline 2 primary impacts of a wildfire

With reference to a Wildfire event, evaluate the impacts of the event and the effectiveness of responses to it

Evaluate the responses to occupying places that deal with a range of Hazards

How has the character of place affected by the local hazards