

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Questions for this lesson	Red Zone
1. To describe natural hazards and natural disasters	Hazard, Risk, Disaster	Tectonic hazards	Natural hazards	• I can define a natural hazard. • I can define a natural disaster. • I can explain the difference between a natural hazard and a natural disaster.	Which of the following describes a natural disaster?	Explain the difference between a natural hazard and a natural disaster, using examples in your answer. (8 marks)
2. To explain why tectonic plates move	Tectonic, Plate margins, Slab pull	Tectonic hazards	Structure of the Earth	• I can describe convection currents. • I can explain the process of slab pull. • I can explain the process of ridge push.	Which of the following describes the process of slab pull?	Explain how convection currents in the mantle cause tectonic plates to move. (6 marks)
3. To explain what happens at destructive plate margins	Destructive, Subduction, Collision	Tectonic hazards	Plate movements	• I can describe what happens when two continental plates meet. • I can describe what happens when two oceanic plates meet	Which of these best describes what happens at a destructive plate margin?	Explain how destructive plate margins can lead to earthquakes and volcanic eruptions. (8 marks)

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				I can explain what happens when an oceanic and continental plate meet.		
4. To explain what happens at constructive plate margins	Constructive, Diverge, Rift valley	Tectonic hazards	Destructive plates	- I can identify a constructive plate margin. - I can describe the movement of plates at a constructive margin. - I can explain how constructive plate margins create tectonic landforms.	Which of these best describes what happens at a constructive plate margin?	Describe the processes that occur at a constructive plate margin and the landforms that are created. (6 marks)
5. To explain what happens at conservative plate margins	Conservative, Earthquake, Friction	Tectonic hazards	Constructive plates	- I can identify a conservative plate margin. - I can describe how plates move at a conservative margin. - I can explain why earthquakes occur at	Which of these best describes what happens at a conservative plate margin?	Explain why earthquakes occur at conservative plate margins but volcanoes do not. (6 marks)

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				conservative plate margins.		
6. To explain the distribution of earthquakes	Distribution, Pattern, Anomaly	Tectonic hazards	Conservative plates	• I can describe the global distribution of earthquakes. • I can explain the pattern of earthquake distribution. • I can identify anomalies in the global distribution of earthquakes.	Which of these best describes the distribution of earthquakes?	Describe the global distribution of earthquakes and explain the pattern shown. (8 marks)
7. To explain the distribution of volcanoes	Distribution, Pattern, Anomaly	Tectonic hazards	Distribution of earthquakes	• I can describe the global distribution of volcanoes • I can explain the pattern of volcano distribution. • I can identify anomalies in the global distribution of volcanoes.	Which of these best describes the distribution of volcanoes?	Describe the global distribution of volcanoes and explain the pattern shown. (8 marks)

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8. To describe the primary and secondary effects of earthquakes	Primary, Secondary, Effects	Tectonic hazards	Distribution of volcanoes	• I can define primary effects. • I can define secondary effects. • I can explain the difference between primary and secondary effects using examples.	Which of the following is a secondary effect?	Explain the difference between primary and secondary earthquake effects, using examples. (8 marks)
9. To explore the immediate and long-term responses to a hazard	Immediate, Long-term, Response	Tectonic hazards	Primary / secondary effects of earthquakes	• I can identify immediate and long-term responses to tectonic hazards. • I can describe how different responses reduce the impacts of hazards. • I can evaluate the effectiveness of immediate and long-term responses.	Which of the following actions is a long-term response?	Compare immediate and long-term responses to a tectonic hazard you have studied. (8 marks)

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10. To discuss the causes and impacts of the 2011 Japan Earthquake	High-income country (HIC), Tohoku, Primary effects, Secondary effects	Tectonic hazards	Immediate and long-term responses to earthquakes	• I can describe the causes of the Japan earthquake. • I can identify the primary effects of the earthquake. • I can explain the secondary effects of the earthquake.	Which of the following is a secondary effect of the 2011 Japan earthquake?	Explain the causes and impacts of the 2011 Japan earthquake. (8 marks)
11. To discuss the response to the 2011 Japan Earthquake	Immediate response, Long-term response, Recovery	Tectonic hazards	Causes and impacts of Japan earthquake	• I can identify immediate responses to the Japan earthquake • I can identify long-term responses to the Japan earthquake. • I can explain the effectiveness of immediate and long-term responses.	Which of the following actions was a short-term response?	Discuss the effectiveness of responses to the 2011 Japan earthquake. (6 marks)
12. To discuss the causes and impacts of the 2010 Haiti Earthquake	Low-income country (LIC), Port-au-Prince, Primary effects,	Tectonic hazards	Response to Japan earthquake	• I can describe the causes of the Haiti earthquake. • I can identify the primary effects of the earthquake.	Which of the following is a secondary effect of the 2010 Haiti earthquake?	Explain the causes and impacts of the 2010 Haiti earthquake. (8 marks)

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	Secondary effects			I can explain the secondary effects of the earthquake.		
13. To discuss the response to the 2010 Haiti Earthquake	Immediate response, Long-term response, Aid	Tectonic hazards	Causes and impacts of Haiti earthquake	- I can identify immediate responses to the Haiti earthquake. - I can identify long-term responses to the Haiti earthquake. - I can explain the effectiveness of immediate and long-term responses.	Which of the following actions was a short-term response?	Discuss the effectiveness of responses to the 2010 Haiti earthquake. (6 marks)
14. To explore the reasons why people live near tectonic activity	Opportunities, Economic, Geothermal energy	Tectonic hazards	Response to Haiti earthquake	- I can identify reasons why people live near tectonic activity - I can categorise reasons as economic, social or environmental	Which best describes a reason why people live near tectonic activity?	Explain why people continue to live in areas affected by earthquakes and volcanoes despite the risks. (8 marks)

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				• I can explain why people continue to live in areas at risk from tectonic hazards.		
15. To assess the ways earthquake risk can be reduced	Prediction, Planning, Preparation	Tectonic hazards	Reasons people live near tectonic activity	• I can describe ways earthquake risk can be reduced. • I can explain how prediction, planning and preparation can reduce risk. • I can assess the effectiveness of different earthquake risk-reduction strategies.	Which of the following is an example of prediction?	Assess the effectiveness of different strategies used to reduce the risk from earthquakes. (12 marks)
16. To understand global atmospheric circulation patterns	Atmospheric pressure, Hadley cells, Ferrel cells, Polar cells, Coriolis	Weather hazards	Earthquake risk reduction	• I can identify the main latitude lines and the three atmospheric cells. • I can describe the movement of air within global	Which statement correctly describes the atmospheric conditions at the Equator?	Describe the movement of air within the Hadley cell and explain how it affects the climate at the Equator and the Tropics. (6 marks)

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	effect, Anticyclone			atmospheric circulation. • I can explain how air pressure and atmospheric circulation influence global climate.		
17. To explore how tropical storms develop	Meteorologists, Hurricane, Cyclone, Typhoon, Eye, Eyewall	Weather hazards	Global atmospheric circulation patterns	• I can identify the conditions necessary for a tropical storm to form. • I can describe the sequence of tropical storm formation. • I can explain the structure of a tropical storm.	Which of the following ocean conditions is essential for the formation of a tropical storm?	Explain the role of warm ocean water and the Coriolis effect in the development of a tropical storm. (4 marks)
18. To discuss how climate change could affect tropical storms	Global warming, Climate change, Sea surface temperature	Weather hazards	How tropical storms develop	• I can describe how global warming affects sea surface temperatures. • I can explain how climate change could	How is climate change predicted to affect the intensity of tropical storms in the future?	Explain how rising global sea surface temperatures could alter the distribution and intensity of tropical storms. (4 marks)

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				affect the intensity of tropical storms. • I can explain how climate change could affect the frequency and distribution of tropical storms.		
19. To explore the effects of Typhoon Haiyan	Storm surge, Landslide, Saffir-Simpson scale	Weather hazards	How climate change could affect tropical storms	• I can identify the primary and secondary effects of Typhoon Haiyan. • I can categorise the effects as social, economic and environmental • I can assess the relative significance of the primary and secondary effects.	Which of the following was a secondary effect of Typhoon Haiyan?	Assess the extent to which primary effects are more significant than secondary effects of a tropical storm. Use a named example in your answer. (9 + 3 SPaG marks)

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20. To analyse the responses to Typhoon Haiyan	Aid, Infrastructure , Communication, Immediate, Long-term	Weather hazards	Effects of Typhoon Haiyan	• I can identify immediate and long-term responses to Typhoon Haiyan. • I can explain the impacts of immediate and long-term responses. • I can evaluate the effectiveness of the responses to Typhoon Haiyan.	Which of the following actions is a long-term response to Typhoon Haiyan?	Evaluate how long-term responses to Typhoon Haiyan aimed to reduce the impact of future tropical storms in the Philippines. (8 marks)