**Global Hazard Patterns**

1. Draw a cross-sectional diagram to show the structure of the earth, label each layer with its name, thickness and material characteristics.
2. Describe the different strands of evidence that support the theory of plate tectonics. Include rock, fossil and biological evidence.
3. Explain how plate tectonics can help our understanding of the distribution of earthquakes and volcanoes.
4. Draw a cross-section across an oceanic/continental destructive plate margin and fully annotate it with characteristics such as the asthenosphere, lithosphere and subduction zone.
5. Compare and contrast the different landforms associated with destructive and constructive plate margins and explain which landforms are the most hazardous.
6. Explain why volcanoes found on the Pacific ‘Ring of Fire’ often have long periods of time between explosive eruptions and therefore cause major disasters.
7. Both Iceland and Hawaii are formed by hotspots. Draw a diagram to show how island chains, coral atolls and seamounts are formed.
8. Describe the global geographical distribution of landslide hotspots; include a range of named examples and an outline of their different causes.
9. Which of the three major geo-physical hazards do you think threatens the greatest disasters: earthquakes, volcanoes or slides? Justify your answer.
10. Outline the three major causes of drought conditions. How do you think the frequency and magnitude of drought might change in the future?
11. Outline the four major causes of flooding. How do you think the frequency and magnitude of flooding might change in the future?
12. Which of the three major hydro-meterological hazards do you think threatens the greatest disasters: droughts, floods or tropical storms? Justify your answer.
13. How is a disaster hotspot identified and defined?
14. Looking at Figure 3.9 - the global multiple hazard risk map, make a list of the top twenty risky cities (you may need to look at an Atlas)
15. Outline the physical and human characteristics of the Philippines which make it both hazardous and its people vulnerable.
16. Research and write a chronology of significant disasters which have affected California since 1905.
17. Outline the physical and human characteristics of California which make it both hazardous and its people vulnerable.
18. Compare and contrast the two disaster hotspots of the Philippines and the Californian coast in terms of their range and management of hazards.
19. Research and write a chronology of local hazard events which have affected Abu Dhabi.
20. How might the hazard risk for Abu Dhabi change in the future?