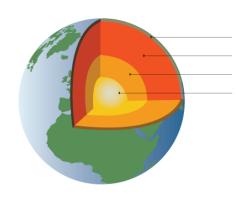
The Challenge of Natural Hazards - Q1

Natural hazards pose major risks to people and property

What is a natural hazard?	
What is hazard risk?	
Why is the frequency and strength of natural population and what people are doing to make	-
	

Earthquakes and volcanic eruptions are the result of physical processes

Label the layers of the earth on the image below and give three differences between oceanic and continental crust:



Oceanic crust	Continental crust

Outline the evidence that tector	nic plates a	re moving.
What are the two theories behir	nd why tect	tonic plates move?
THEORY 1		THEORY 2
Continents move apart together Mantle Continent move together Mantle	ts	SLAB PULL shearing resistance gravity idge push* THE PULL OF GRAVITY ON A PLATE THAT IS BEING SUBDUCTED.
Describe the global distribution of volcanoes and earthquakes, i.e. where are they?	Eurasian Plate A Phil Plate Indo-Australi	Juan de Fuca Plate Pacific Plate Antarctic Plate Direction of plate movement Plate boundary

Constructive Margin	Destructive Margin
Conservative Margin	Collision Margin

The effects of, and responses to, a tectonic hazard vary between areas of contrasting levels of wealth (i.e. effects of earthquakes are different in rich and poor countries).		
What are primary and secondary effects?		
What are immediate and long-term responses?		
Complete the table below with 3 primary and 3 immediate and 3 long-term responses to an eart	·	
Primary effects	Secondary effects	
Immediate responses	Long-term responses	

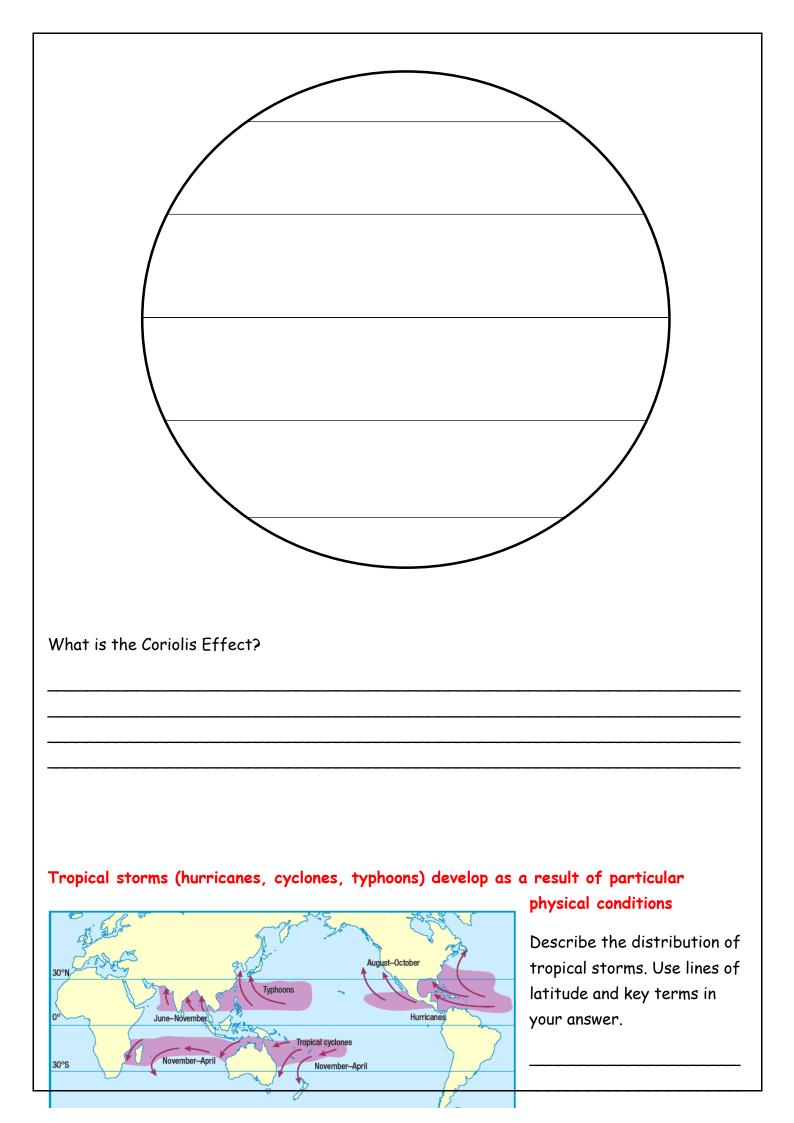
Named example of a tectonic hazard in a high income country (HIC)		
Complete the tables below	with 3 facts in ea	ach column - remember to include SPECIFIC
Primary effec	its	Secondary effects
Immediate respo	onses	Long-term responses
Do you think primary effects	or secondary effo	ects were more significant?
Do you think immediate or lo	ng-term responses	were more significant in? Why?
	Named example of (LIC)	of a tectonic hazard in a low income country

Outline the causes of the earthquake.		
Complete the tables below with 3 facts in each column – remember to include SPECIFIC FACTS,		
Primary effects	Secondary effects	
Immediate responses	Long-term responses	
xplain why the effects and responses were ompared to a HIC. he effects were so different because		
he responses were so different because		
	 	

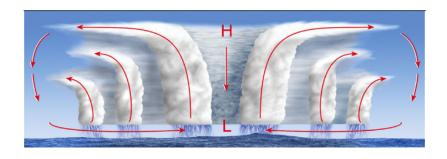
<u>Managemei</u>	nt can reduce the effects of a tectonic hazard
Give 4 reas	ons why people continue to live in areas at risk from a tectonic hazard:
•	
•	
•	
	ome of the benefits of living in Iceland near lots of volcanoes? Which is the nefit and why?
	A. F. L. T.
*	
NE UNI	
14 0	
	nitoring and what are the 3 Ps used to reduce the effects of earthquakes?
	is
	Prediction is
A CONTRACTOR OF THE PROPERTY O	Protection is
	Planning is

Which of the above four strategies is the most effective in reducing the effects of earthquakes? Why?

hich of the above four strategies is the least effective in reducing the effects of arthquakes? Why?	
hich of the above four strategies is the most effective in reducing the effects of lcanoes? Why?	
hich of the above four strategies is the least effective in reducing the effects of lcanoes? Why?	
obal atmospheric circulation helps to determine patterns of weather and climate	
n the model below, add the following features:	



	
Give 2 conditions needed for tropical storms to form:	
•	
•	
Minite a nanconant to explain the acquence of formation of a transcal atoms	
Write a paragraph to explain the sequence of formation of a tropical storm.	
Give 2 reasons why tropical storms may lose their energy:	
Tive 2 reasons with it opical storing may lose their energy.	
•	
•	
Label the diagram below with the characteristics of tropical storms:	



Give the likely 24 - 48 hour weather forecast for the island storm.	to the north west of the tropical
How is climate change likely to affect the distribution, frequestorms?	ency and intensity of tropical
Distribution:	
Frequency: Intensity:	
Named example of a tropical storm: Typhoon Haiyan, 2013	
THE PATH TAKEN BY TYPHOON HAIYAN CHINA CHINA CHINA NORTH PACIFIC OCEAN THAILAND Ouang Ngal Quy Nhon CAMBODIA VIETNAM Puerto Princess Samar Panay Dayao City Dayao City Dayao City Dayao City Dayao City	yphoon Haiyan.

Complete the tables below with 3 facts in each column – remember to include SPECIFIC FACTS, i.e. facts that could only have happened in Typhoon Haiyan, e.g. numbers, names, etc		
Primary effects	Secondary effects	
Immediate responses	Long-term responses	
Do you think primary effects or secondary eff	ects were more significant in Typhoon Haiyan?	
Do you think immediate or long-term response:	s were more significant in Typhoon Haiyan?	
How can you monitor, predict, protect against	and prepare for tropical storms? Give some	
How can you monitor, predict, protect against examples of each in the table below: Monitor	and prepare for tropical storms? Give some Predict	

Protect Prepare

The UK is affected by a number of weather hazards

What is extreme weather?

Annotate the photograph below describing the social, economic and environmental impacts of severe snowfall or rainfall in the UK (include impacts you might not be able to see in the images):





Extreme weather events in the UK have impacts on human activity

Named example of a recent extreme weather event in the UK: UK Heatwave, 2015

Outline the causes of the UK Heatwave.



mpiete the table below to seatwave 2015 (be specific):	snow the social, ec	onomic and env	vironmental impacts of the UK
Social impacts	Economic	impacts	Environmental impacts
hat management strategies	were used to red	uce the risk to	people and the environment?
hat management strategies were used to red Immediate responses		Long-term responses	
<u> </u>			

Climate change is the result of natural and human factors and has a range of effects

Complete the table below to briefly explain how each factor provides evidence of climate change:

Recent evidence
Melting ice:
Seasonal changes:
Instrument readings:







Briefly explain how each of the following factors cause climate change:

Natural causes	Human causes
Orbital changes:	Use of fossil fuels:

Volcanic activity:	Agriculture:
Calan autouti	No formatations
Solar output:	Deforestation:

Add 6 labels onto the map below to show the global effects of climate change on people and the environment (they could be positive or negative):



Managing climate change involves both mitigation (reducing causes) and adaptation (responding to change)

What is the definition of mitigation?

What is the definition of adaptation?						
Complete the table below to show how we can mitigate and adapt to climate change and briefly outline how each one helps to reduce the effects of climate change:						
Mitigation methods		Adaptation methods				
What are the adv	antages and disadvantages of	mitigat	ion and adaptation?			
Method	Advantages		Disadvantages			
Mitigation						
Adaptation						