

# Paper 1 Physical Landscapes - Natural Hazards

## DEFINITIONS

A natural hazard is a \_\_\_\_\_ event, which is perceived by people as a \_\_\_\_\_ to life, the economy & \_\_\_\_\_. It may be generated from within the \_\_\_\_\_ (volcanoes & earthquakes), occur upon the \_\_\_\_\_ (flood), or happen within the atmosphere (drought, snow).

## Tectonic Hazards



## Atmospheric hazards

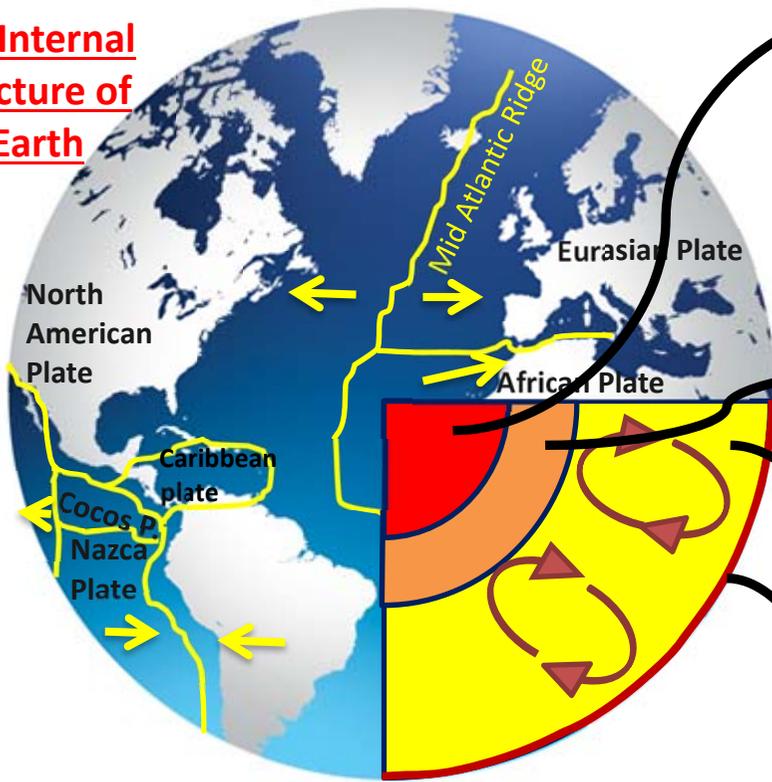


## Geomorphological hazards

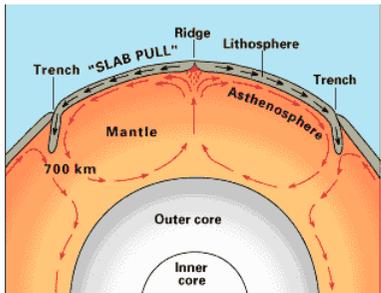


## Biological hazards

The Internal Structure of the Earth



The tectonic plates move because of convection currents these are:



Colour code and label the names of the plate margins.

(Key will help you).

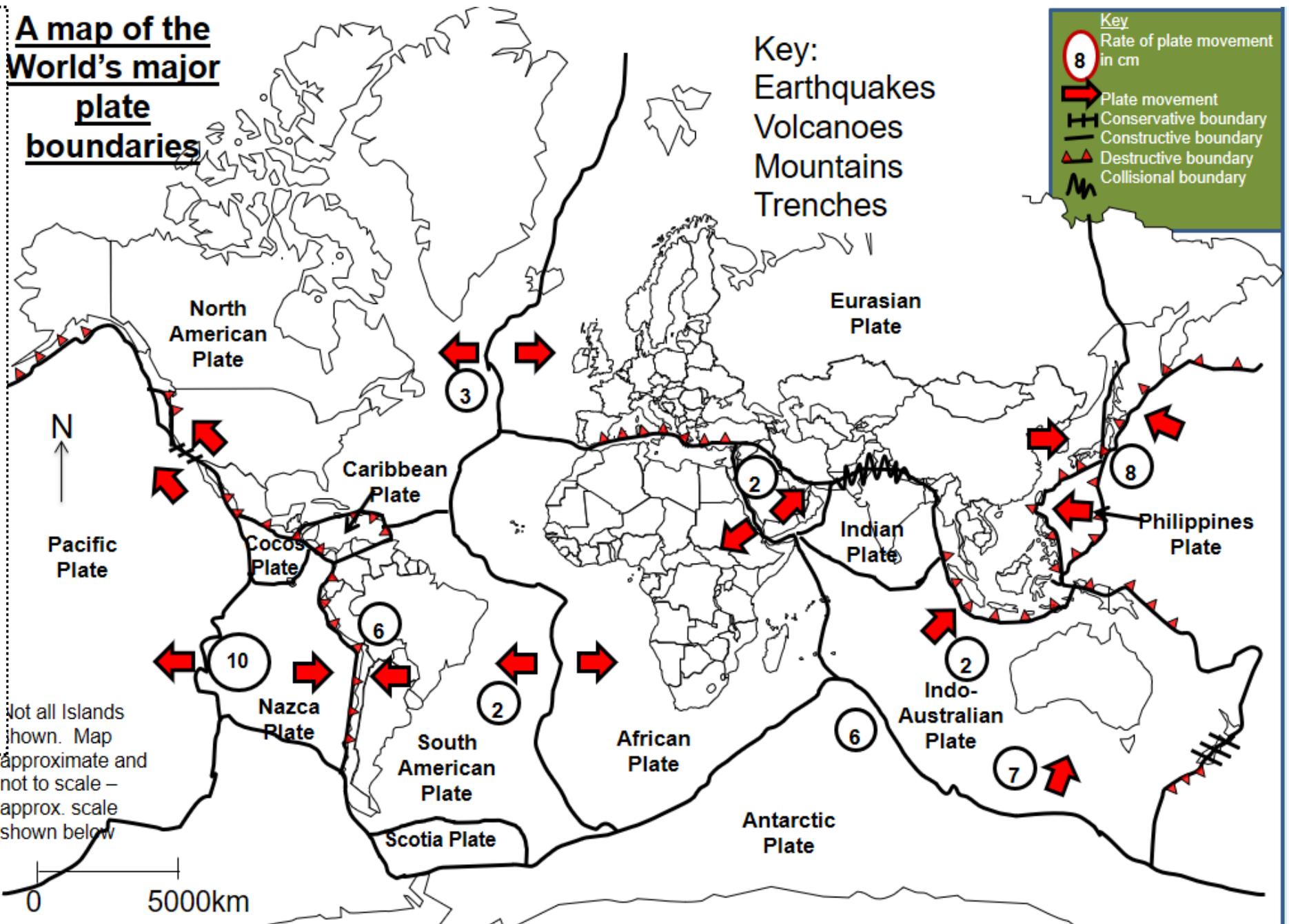
Next label the following features:

- Earthquakes
- Volcanoes
- Fold mountains
- Trenches
- Rift valley
- Tsunamis

**A map of the World's major plate boundaries**

Key:  
Earthquakes  
Volcanoes  
Mountains  
Trenches

8	Key
	Rate of plate movement in cm
	Plate movement
	Conservative boundary
	Constructive boundary
	Destructive boundary
	Collisional boundary



Not all Islands shown. Map approximate and not to scale – approx. scale shown below

## Tectonic boundaries *In an exam you could be asked to draw a labelled diagram or write about the process.*

### DESTRUCTIVE

The \_\_\_\_\_ plate moves towards the \_\_\_\_\_ plate and \_\_\_\_\_ under it because it is \_\_\_\_\_ creating a \_\_\_\_\_. This causes the plate to \_\_\_\_\_, which creates \_\_\_\_\_ that rises through the weaknesses of the \_\_\_\_\_ plate and erupts as a volcano. **E.g. the Nazca plate subducts under the \_\_\_\_\_ plate forming the Andes.**

### CONSTRUCTIVE

Two plates move \_\_\_\_\_ from each other. By slab pull. \_\_\_\_\_ rises up and \_\_\_\_\_ and \_\_\_\_\_ to form new oceanic plate this can trigger \_\_\_\_\_ and form rift valleys (on the land), volcanoes, and \_\_\_\_\_ islands. **E.g. the North America and Eurasian plate forming Iceland.**

### CONSERVATIVE

Plates move \_\_\_\_\_ or in the \_\_\_\_\_ direction. The plates \_\_\_\_\_ due to the friction which leads to \_\_\_\_\_ building. When they become unstuck, this releases the pressure triggering an \_\_\_\_\_. **E.g the North American plate and the Pacific plate - San Andreas fault**

Plate boundary	Fold mountains?	Trenches?	Volcanoes?	Earthquakes?
Constructive/ Divergent				
Destructive/ Convergent				
Conservative				
Collisional				

The 3 Ps for reducing Earthquake impact:

PREDICTION

PREPARATION

PREVENTION

The 4 Rs for human responses to a disaster

RESCUE

REPAIR

REBUILD

RECONNECT

Primary Impacts

1

2

3

Secondary Impacts

1

2

3

Short-term response

1

2

3

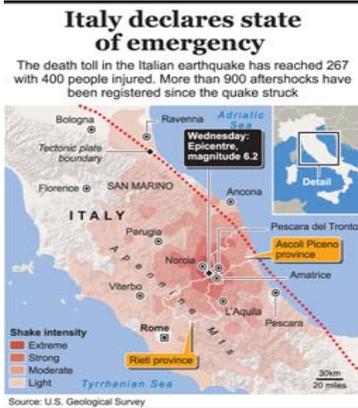
Long-term Impacts

1

2

3

# Comparing Italy and Pakistan's Earthquakes



Background info and Causes

Background info and Causes



Effects

\_\_\_\_\_ Primary \_\_\_\_\_

\_\_\_\_\_ Secondary \_\_\_\_\_

Effects

\_\_\_\_\_ Primary \_\_\_\_\_

\_\_\_\_\_ Secondary \_\_\_\_\_

Immediate (short/medium) responses

Longer-term responses

Immediate (short/medium) responses

Longer-term responses

## How and why are they different?

How does the time of day  
and year affect both  
examples?

How and why does the death and homeless rate differ between the examples?

How did the response differ between the two? Who was more prepared?

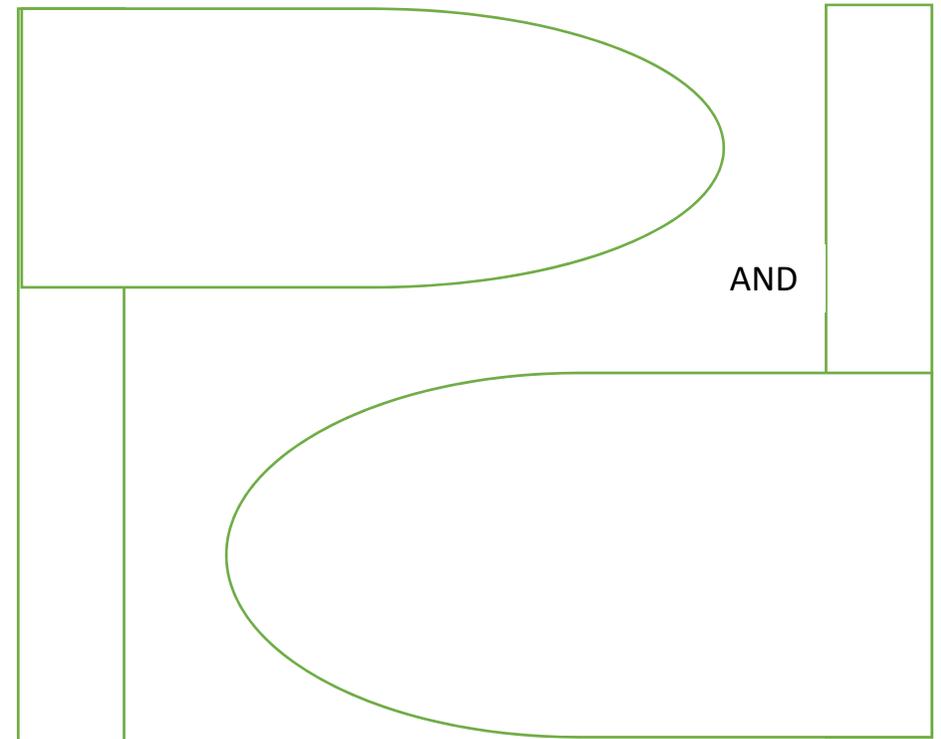
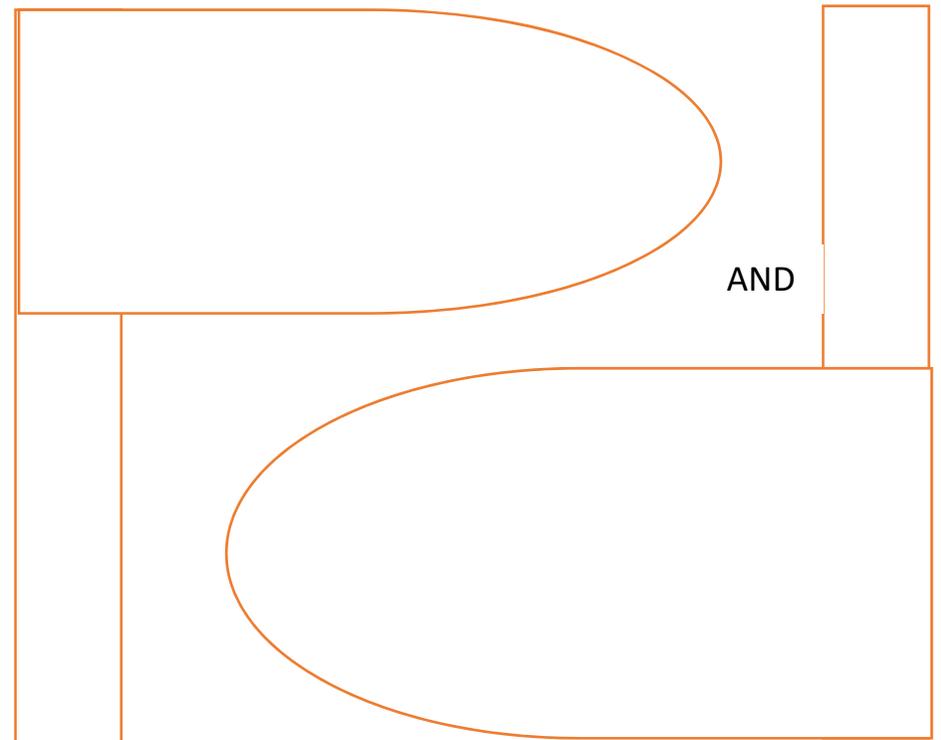
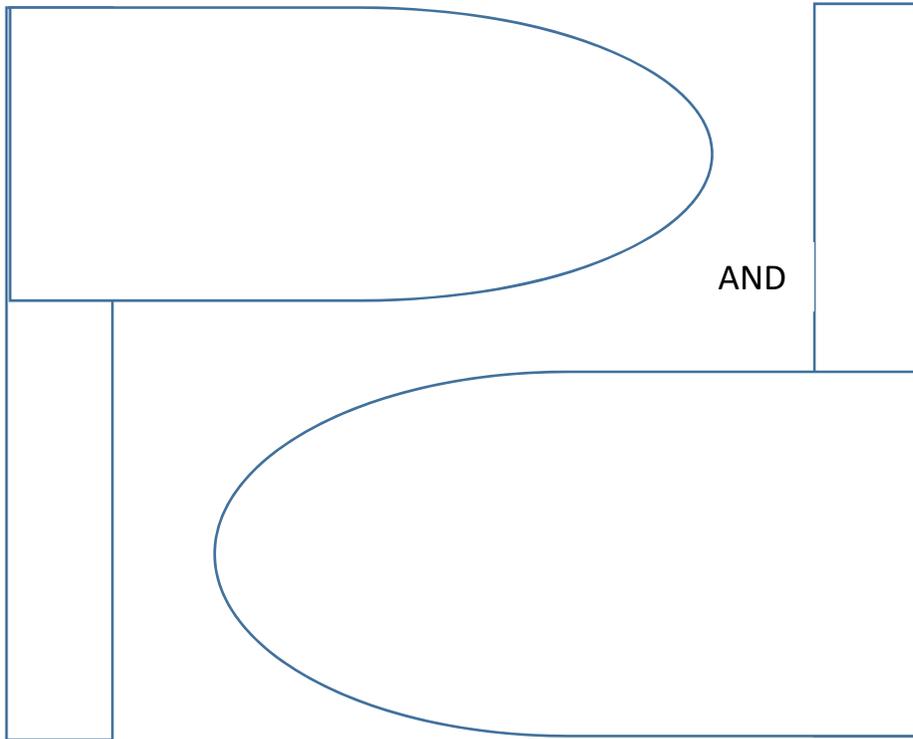
Overall how important is the countries level of development when it comes to the hazard?

### **IMPORTANT**

In the exam, the question will say tectonic hazard rather than earthquake because other schools may have done volcanoes.

**Why do people live in tectonically active areas?**

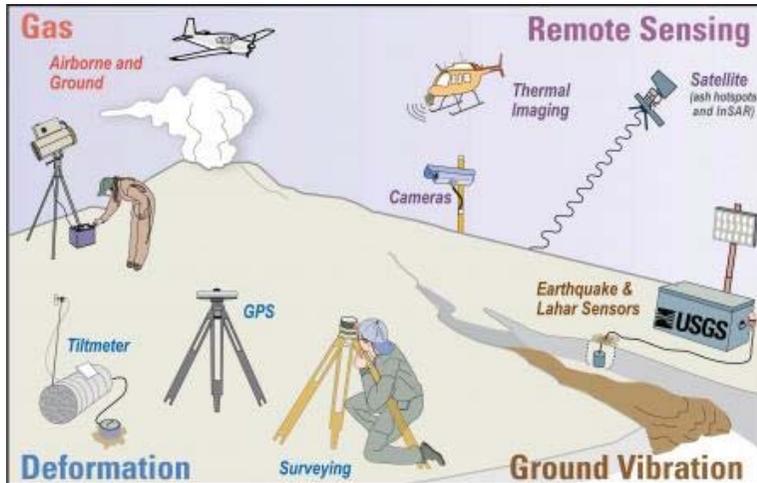
Remember to make your POINT and then DEVELOP it by explaining



How monitoring, prediction, protection and planning can reduce the risks from a tectonic hazard.

Around the diagram - POINT and DEVELOP how we can predict earthquakes and volcanoes.

How could we PLAN and MANAGE to help reduce earthquake and volcanoes risks?



# CLIMATIC HAZARDS

Global Atmospheric Circulation