GCSE GEOGRAPHY - UNIT 1: Living with the physical environment

Natural Hazards

A natural hazard is a natural process which can cause death, injury, or disruption to humans, or distroy property and passessions.

A natural disaster is a natural hazard that has already happened.

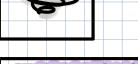
2 MAIN TYPES OF NATURAL HAZARDS:

Geological hazard: caused by land and tectonic processes

M

Meteorlogical hazard: caused by weather and climate

HUMAN FACTOR	NATURAL FACTOR
POPULATION	TYPE OF NATURAL HAZARD
WHETHER IT IS A HIC OR LIC	FREQUENCY AND MAGNITUDE OF THE NATURAL HAZARD
HOW THE	PHYSICAL GEOGRAPHY OF THE AREA (FLAT)
COPE WITH EXTREME EVENTS	MOUNTAINOUS! ISLAND! LANDLOCKED)



IMMEDIATE RESPON-- SES:

evacuation wasses and

huping injured Road, water, Shuter and

money gifted

PRIMARY

SECONDARY

Building and road destr--uction deaths and injured crops and water supplies damaged

cables/pipes damaged

initial hazard thiggers other hazards

emergency aid unable to get through due to blocked roads

lack of clean water and sanitisation —> disease

Long term responses:

esseron baces

umproving forecasting

evacuation plans

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Chile vs Nepal

CHILE - 2010 - 8.8 RS

CAUSE:

destructive plate boundary.

Nazca plate (oceanic crust) subducting the south American plate (continental crust) plate

PRIMARY EFFECTS:

- 500 deaths, 12000 injured and 800,000 homeless.
- · Major ports and airport damaged.
- · most of Chiu Lost its power and water supply.
- · cost of US\$30 billion.

SECONDARY EFFECTS:

- · a large fire at a chemical plant near santiago (Chile's capital)
- · Tsurami damaged coastal towns.
- · Landslides damaged 1500 km of roads cutting off I remote villages.

IMMEDIATE RESPONSES:

- · Power and water restored to 90% affected within 10 days.
- Temporary repairs to highway 5
 within 24 hours.
- · National appeal raised US\$30 million to build shuters.

LONG-TERM RESPONS ES:

 Nearly 200,000 households
 huped by a reconstruction program launched by the government within a month.

NEPAL - 2015 - 7.9 RS

CAUSE:

destructive plate boundary.

Eurasian plate and Indo-Australian plate are colliding.

PRIMARY EFFECTS:

- · 9000 deaths, 20000 injured and 3 million people homeless.
- · 7000 schools destroyed and hospitals ownwhelmed.
- · 1.4 million people needed food, water and shifter.
- · cost of US\$5 billion.

SECONDARY EFFECTS:

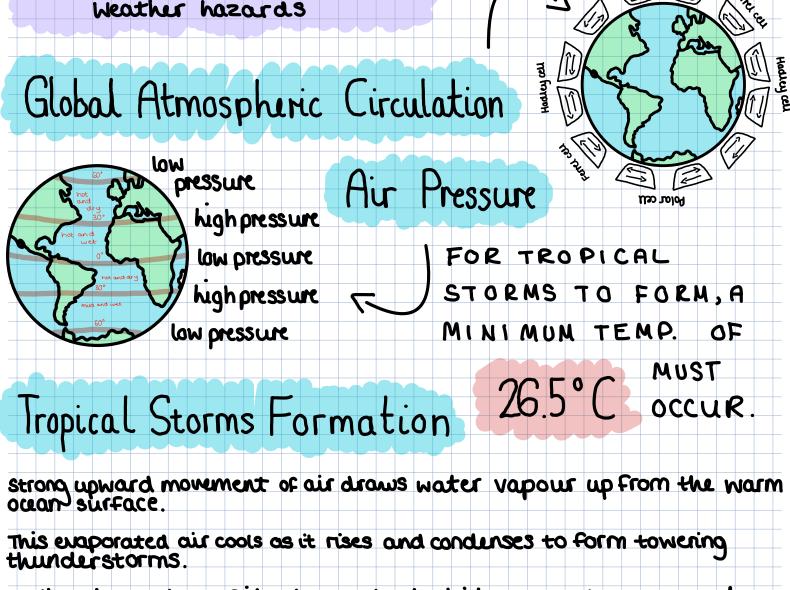
- · Avalanches on Mt. Everest killed at least 19 people.
- · Landsudes blocked roads hampering the aid effort.
- · Kali Gandaki River blocked by landslides and ara was evacuated due to Fear of Flooding.

IMMEDIATE RESPONSES:

- · UK, India and China sent search and rescul teams, water and food aid.
- 500000 tents provided.
- · Helicopters supplying aid to isolated areas.

LONG-TERM RESPONS ES:

- · lebairs to Everst base camp.
- Stricter building code control.
 Roads repaired + landslides cleared.



As the air condenses it releases heat which powers the storm and draws up more and more water from the ocean.

Several smaller thunderstorms join together to form a giant spinning storm. When surface winds each an average 75mph the storm becomes a tropical storm.

The storm now develops an eye at its centre where air descends rapidly. The outer edge of the eye is the eyewall when the most intense weather conditions are feet.

As the storm is carried across the ocean by prevailing winds, it continues to gather strength.

On reaching land the storms energy supply is cut off. Friction with the land slows it down and begins to weaken. If the storm reaches warm seas after crossing the land it may pick up strength again.

lyphoon Haiyan

FACTS AND STATISTICS:

More than 6000 people reported dead. affected. It million people

Nearly 1600 evaluation centres set up. Over 1 million homes

8th November 2013

damaged, many of which were destroyed computely.

US\$20 billion cost to the Phillipines.

A 6 metre tall wave from the storm surge hit tacioban boy. The funnel shape of the bay helped increase the height of the wode.

stagnant water attracted mosquitos and more people contracted Malaria.

The storm resulted in widespread power interruptions, landslides, roads blocked by trees and hundreds of domestic and international airline flights were cancelled.

The 3Ps

PLANNING

PREDICTION

au used to lessen the effects of meteorlogical disastes.

PROTECTION

EXTREME

Extreme weather in the UK

WEATHER

unexpected, unusual, unpredictable, severe, or un'seasonal weather!

EXAMPLES

FROM THE EAST (EARLY 2018) BEAST

sorm of snow in some areas. Red weather warnings issued. Temperatures as low as -15°C. Total damage = £1.2 billion. Rash Flooding,

drought, storms, cold speus and heatwares.

SUMMER HEAT WAVE (MID 2018)

uks hottest and diriest summer on record. 6 weeks of no rounfall caused drought and low crop yield. In the south, temperatures rose to 40°C. Hosepipe ban'enforced.

