MSN 2020



SCAN ME

# Landscapes and physical processes



Geography Knowledge Organiser

# 1.1.1 - Distinctive landscapes



dramatic mountain scenery. After the ice age

Deep valleys and deposition of sediment revealed

# -Coastlines

-Rivers

1) River flows over

rocks.

beneath.

for erosion.

gorge.

alternative types of

2) River erodes soft rock

faster creating a step

3) Further hydraulic

action and abrasion

form a plunge pool

4) Hard rock above is

undercut leaving cap

rock which collapses

5) Waterfall retreats

leaving steep sided

providing more material

-Habitats -Wildlife

Human Variable -Buildinas -Weather -Infrastructure -Senses

# 1.1.2/3 - Human activity

Honeypot site - A location which attracts a large number of tourists who, due to their numbers, place pressure on the environment and local people. Carrying capacity - The number of people which a region can support without damaging the location and environment.

Visitor pressure - tourists who, due to their numbers, place stress on the environment and local people.

Positives of visitor pressure	Negatives of visitor pressure				
Employment opportunities are created to meet the demands of the tourists	Jobs are often seasonal or part time. This makes it harder to support family.				
Tourism brings in money and will boost the local economy	There is overcrowding in the peak seasons				
There will be upkeep of the area, making	Businesses are designed for the tourists				
it a clean place to live	There can be congestion on the roads				
Crime can be reduced due to higher levels of employment	Scenic walks and hikes are damaged by footpath erosion				
(1.1.3) Management: repairing footpaths					
Stone pitching - This technique involves digging stone into the ground to form good solid footfalls. This ancient technique is used extensively in the central fells using stone which is naturally occurring					

Soil Inversion - A digger is used to construct a ditch drain. The soil removed

from the drain is placed alongside to create a hard wearing walking surface. Grass seed mix is then sown to encourage vegetation to bind all the works together.

Sheep wool - The fleece is placed between the soil and the stones to prevents the stone from sinking into the soil. This creates a 'floating' path and also absorbs some water to slow surface runoff.

# 1.2.1 - Processes & landforms (Rivers)

	Erosion	
Attrition	Rocks that bash together to become smooth/smaller.	
Solution	A chemical reaction that dissolved rocks.	
Abrasion	Rocks hurled at the base of a cliff to break pieces apart.	
Hydraulic         Water enters cracks in the cliff, air compresses, causing the crack to expand.		
Transportation		
Solution	Minerals dissolve in water and are carried along.	
Suspensio	<ul> <li>Sediment is carried along in the flow of the water.</li> </ul>	
Saltation	Pebbles that bounce along the sea/river bed.	
Traction	Boulders that roll along a river/sea	

bed by the force of the flowing water

### Deposition

When the sea or river loses energy, it drops the sand, rock particles and pebbles it has been carrying. This is called deposition.



Stage Three With repeated freeze-thaw cycles, the rock breaks off

### Weathering

Chemical Action of chemicals within water dissolving the rock.

### Biological

Rocks that have been broken down by living organisms or plant roots.



### Formation of floodplains and levees

When a river floods, fine silt/alluvium is deposited on the valley floor. Closer to the river's banks, the heavier materials builds up to form natural levees.



### Formation of a meander

A meander is a curve in a river's course formed when erosion and deposition take place on opposite river banks. The two sides of the meander eventually meet and create a straight channel.

Inside bend: Slowest speed Deposition Slip-off slope/point bar

Outside bend: Fastest speed Erosion River cliff/undercut



### **River long profile** Upper course

Near the source, the river is flows over steep gradient from the hill/mountains. This gives the river a lot of energy, so it will erode the riverbed vertically to form narrow valleys.

### Middle course

Here the gradient get gentler, so the water has less energy and moves more slowly. The river will begin to erode laterally making the river wider.

### Lower course

Near the river's mouth, the river widens further and becomes flatter. Material transported is deposited.





# 1.2.1 - Processes & landforms (Coasts)

# oft rock

### Formation of bays and headlands Waves attack the coastline.

2) Softer rock is eroded by the sea quicker forming a bay, calm area cases deposition.

3) More resistant rock is left jutting out into the sea. This is a headland and is now more vulnerable to erosion.



1. Hydraulic action widens cracks in the cliff face over time. Abrasion forms a wave cut notch between HT and LT. 2. Further abrasion widens the wave cut notch to from a cave. 3. Caves at both sides of the headland break through to form arch 4 .Weather above/erosion below -arch collapses leaving stack. 5. Further weathering and erosion eaves a stump.

### Types of coastline

Concordant

### A concordant coastline occurs where the bands of differing rock types run parallel to the coast. The outer hard provides a protective barrier to erosion of the softer rocks further inland. Sometimes the outer hard rock is punctured allowing the sea to erode the softer rocks behind. This creates a cove which is a circular area of water with a relatively narrow entrance way from the sea.

### Discordant

Discordant coastline occurs where bands of differing rock type run at right angles to the coast. The different resistance to erosion leads to the formation of headlands and bays.





1) Swash moves up the beach at the angle of the prevailing wind. 2) Backwash moves down the beach at 90° to coastline, due to gravity. 3) Zigzag movement (Longshore Drift) transports material along beach. 4) Deposition causes beach to extend, until reaching a river estuary. 5) Change in prevailing wind direction forms a hook. 6) Sheltered area behind spit encourages deposition, salt marsh forms.

### Mass movement

Mass Movement is the downhill movement of cliff material Rockfall As the weathering processes weaken the structure of the cliff rock fragments fall away. Landslide Large blocks of the cliff slide down to the base of the cliff due to erosion weakening the base of the cliff

Slumping When soft rocks like clay become too wet from rainfall and weakened by erosion, the entire cliff face slips down in a curve, making steps in the cliff



1. The sea attacks the base of the cliff between the high and low water mark.

2. A wave-cut notch is formed by erosional processes such as abrasion and hydraulic action - this is a dent in the cliff usually at the level of high tide.

3. As the notch increases in size, the cliff becomes unstable and collapses, leading to the retreat of the cliff face.

4. The backwash carries away the eroded material, leaving a wave-cut platform.

we have been seen to be a series of the cliff continues. to retreat.

# 1.2.2 - Rates of change

### Climate

The rainfall map of the UK shows variations in rain. Less precipitation occurs in low land areas. East England Most precipitation occurs in upland areas. Scotland.

These differences mean.. Uplands experience more weathering, erosion and mass movement.

### Geology

Some rock types erode faster than others (sedimentary limestone or clays erodes quicker than metamorphic granite). The direction rocks are lavered in can also affect this eq. concordant or discordant coastlines

### Human activity

Humans can increase rates of change such as footpath erosion on cliffs or building on floodplains but humans can also put management in place is slow erosion or transport processes, like dams, groynes, river dredging & afforestation.

Clav

Granite



# 1.3.1 - Drainage basins

Condensation- when water vapour cools to form clouds Evaporation- where water is turned into

Precipitation- any water that falls from the

Transpiration- water is evaporated from the leaves of vegetation

Surface runoff- water runs across the ground to a river Infiltration- water seeps into the soil in the ground

Percolation- water seeps into rock deeper in the ground

Groundwater flow- water flows through the soil and rock in the ground





Drainage Basin- is the area of land drained by a river and its tributaries Watershed- the area of high land forming the edge of a river basin Source- where a river begins Mouth- where a river meets the sea Tributary- a small river or stream that ioins a larger river Confluence- the point at which two rivers meet

Main river channel- main river flow in the drainage basin

Floodplain- flat land on the sides of the river that takes the overflow water

# 1.3.2 - River flooding

Slumping

### Factors influencing how rivers flood:



Steep Slopes - If the land surrounding a river is steep, rainfall will run quickly across the ground as surface runoff, increasing the river's discharge



Urbanisation - Roads and pavements are built using a tarmac, an impermeable material. Rainfall flows quickly over tarmaced surfaces as it cannot infiltrate into the ground, leading to rapidly increasing discharge



Geology - If a drainage basin has impermeable rock, water is unable to percolate into the rock. As a result, the rainfall flows into the river via throughflow and surface run off



Heavy or prolonged rainfall - A high volume of rainfall will cause a river's discharge to increase rapidly, increasing the chances of the river bursting its banks



Vegetation - Trees intercept rainfall as it falls from the sky. If there is a lack of vegetation, more rainfall reaches the ground and eventually the river, seeing a large increase in discharge



water vapour (gas) sky (rain, snow etc) Interception-vegetation traps water before it reaches the ground

<sup>MSN 2020</sup> <b>1.3.3 - Fl</b>	ood management	Home study questions	$\Xi \gamma$
Hard Engineering - Hard er structures, such as dams and be expensive.	ngineering management involves using artificial d embankments which try to control rivers. They tend to	DEVELOPING	H
<b>Soft Engineering -</b> Soft enginanage flooding, it does not sustainable approach to man	neering management is a more natural approach to t involve building artificial structures, but takes a more naging the potential for river flooding.	Explain why a waterfall migrates backwards the source [4 marks]	
쓢	<u></u>	SECURING Analyse the pattern of average precipitation (rainfall) in the UK (1.2.2) [6 marks]	
	River defences	Explain the difference between discordant and concordant coastlines [4 marks]	
Hard Engineering		MASTERING	
Channel straightening	Removing meanders, increases velocity to remove flood water.	'Urbanisation is the most significant factor in flooding' <b>To what extent</b> do you agree with this statement? [8 marks]	
Artificial Levees	Man-made banks heighten river so flood water is contained.	Sketch and annotate the formation of a spit [6 marks]	
Channel widening	Makes river wider to increase capacity for a flood.	CHALLENGE Create a spider diagram to show how all the erosional processes and landforms of rivers and coasts are linked	
Soft Engineering			
Afforestation	Planted trees soak up rainwater, reduces flood risk.	Draw out a river long profile and label where the different landforms and processes would usually occur	
Managed Flooding	Naturally let some areas flood to protect settlements.		

MSN 2020

**T2** 

Find a playlist of explaine clips by scanning or clicking

**Rural-urban links** 



# 2.1.1 - Rural-urban continuum



A rural-urban continuum is the gradual change from a very built up urban area (like a large city) through to rolling countryside and sparsely populated villages. There is no clear line between urban and rural, as represented by the diagram

### Service provision

As we move along the continuum from the most rural to the most urban locations, the number of services provided by each settlement increases. For example, in a small village there is likely to be a post office and a. However, in a large city there are a large number of shops, supermarkets, banks, hospitals and entertainment providers.



A sphere of influence is the area around the settlement from which people are attracted to visit or work due to the services the settlement provided. Large cities have more services so have a larger sphere of influence in the area

### Counter-urbanisation

The movement of people from urban to rural areas to live. Reasons for counter-urbanisation:

Housing - cheaper & bigger Transport - improved roads and increased Increase need for local schools car ownership Employment - more workplaces now

located on urban-rural fringe Environmental factors - less noise and air pollution

Impact of counter-urbanisation: Higher house prices - increased demand Decrease in traditional services - (village shops) residents now shop in urban areas Traffic congestion

Commuting - People often choose to live in cheaper rural areas and commute to work rather than paying higher urban prices, or just work from home

# 2.2.2 - UK towns and cities

### Egan's wheel



Egan's wheel outlines the criteria that needs to be met for a community to be sustainable. There is a social, economic and environmental focus. All of these categories must be met in order to have a sustainable community in urban and rural places.

### Greenfield development

Greenfield sites are those that have not been built on before.

They are easier and cheaper to build on as there's nothing to knock down and there's more land available.

But this isn't sustainable as it is destroying the natural environment and animal habitats.

### Brownfield development

Brownfield sites are those that have been built on before and is often derelict.

Planning permission is often easy to obtain and there are already existing services.

This is a more sustainable method of development however space is often limited and it can be expensive.

# 2.1.2 - Changing rural areas

### Rural change

- Counter-urbanisation, sphere of influences and technological change has lead to: - Reduction or change in employment opportunities in rural area
- Closure of rural services like banks and post offices
- Increase in house prices rural areas, especially in accessible "commuter belt" - Increased "second" home ownership
- Some locals can no longer afford local houses
- Reduction in bus services

Some of the more remote rural areas have experienced lots of negative changes. These include depopulation and deprivation. Deprivation is often characterised by a lack of public transport, healthcare and education.



Sustainable rural community

Things that need to be considered when creating a sustainable community: Availability of jobs – encourage jobs based in rural areas by encouraging more companies to locate there

Education – ensuring local schools remain open

Healthcare - ensure all locals can access healthcare (transport links to cities) Village services – encouraging shops, pubs and post offices to remain open Transport - ensuring public transport runs regularly and can be accessed by all Internet – ensure fast and reliable broadband

# 2.2.3 - Changing retail

Retail change in the UK					
Economic factorsCultural factorsMore home delivery firms making deliveries cheaper, congestion in cities, free parking in out of town centres, high city centre parking costsCar dependant society, habit of bulk buying we or monthly shops		al factors nt society, buying weekly lops	Technological factors Development of high speed broadband, improved websites that can be used to compare prices, internet banking		
Out of town centres					
Benefits			Costs		
Large free parking areas	wn location	Can cause de	cline in city centre		

Large free Less congestion at out of town location Quick and easy access (near motorway network) Often room for expansion Near suburban housing

Can increase congestion out of town Often has the same chain stores at out of town centres - so does not support smaller independent shops. Land use conflicts in out of town areas areas in high demand from business parks and golf courses

### Internet shopping

### Benefits

- Convenient and often cheaper Can buy products not available locally Can buy at any time or any location Less time consuming Traffic congestion is reduced Jobs created for those delivering products Using bank details can lead to fraud
- Not everyone, (the elderly) have internet Goods might be difficult to return City centre shops might close, leads to jobs losses and decline More delivery vans = more congestion

Costs

# 2.2.1 - Changing population

Geography Knowledge Organiser

### **UK** population change factors

Political Social Economic Healthcare - free and Careers - many women now Contraception - is widely accessible for all, so people chose to have a career, than available are living longer start a family Mat-/Pat-ernity rights -Marriage/culture - People Maternity pay - Getting paid Mothers and Fathers now are marrying later and while looking after a have the rights to paid leave having a family later, newborn child encourages to care for a newborn, so reducing the number of more people to have encouraging more people to children they can have children have children **UK migration** 

### Migration to the UK

Stable government More available jobs Good healthcare system Already have family in the UK Good education system Better rates of pay

### Migration within the UK Cost of housing cheaper somewhere else Change in lifestyle - retiring to a rural area Searching for work - more jobs in a cities

Moving to reduce the commuting time - live closer to work

Moving closer to family for care needs

Causes Low birth rate and low death - OAPs have more health rate means we have more people living for longer (high - Increased demand for care - Healthcare, free public life expectancy). The UK now have more people aged 60+ than ever before increases demand for

homes

UK's ageing population Social/Health effects issues, straining NHS homes and carer services - More people living longer

Economic effects - Not enough working aged population to pay taxes transport etc costs the state more money - Pension costs for government increases





As a result of globalisation, places around the world are now more connected than ever before. Global cities have become key globally connected places.

Although global cities are distributed widely across the world it is not an even distribution. For example;

- North America, Western Europe and South Asia have clusters of global cities Africa has very few
- India has 8
- China has 14

### Changes over time

The rate of urbanisation varies across the world. In many HICs the period of rapid urbanisation occurred back in the 1800s, whereas many LICs are experiencing it at the moment.

### 1.3.3 - Connected global cities

Global Cities are connected to each other and other places around the world by:

€	分
$\bigcirc$	€

Finance and Trade - global cities are the world's financial centres as banks locate their head offices in these cities and decisions regarding world trade are made here. This makes them very important places for the economy.



Migration and Culture - global cities attract economic migrants from all over the world. This pattern of migration results in cultural diversity which means that new languages, traditions, foods, celebrations and religions are brought to the country. For example in London over 250 languages are spoken.



Governance and Decision-Making - global cities are home to some of the most influential businesses and companies in the world where decisions made can influence the rest of the globe. For example the UN has headquarters in New York and yet employs 41,000 people worldwide.



Ideas and Information - global cities are home to many of the world's largest television and film industries, broadcasting all across the globe.



Transport Hubs - global cities are home to some of the world's largest airports which allow for the movement of people, goods and tourists across the globe. For example about 158 flights arrive at Dubai International Airport.

# 2.3.2 - Urbanisation in global cities

### London (HIC global city) Reasons for growth

Natural population change - from the

migrants and young workers who were

Migration – the UK attracted many from

ex-colonies as well as people from other

**Connections** – London is the financial

major trading and transport hub.

capital of UK and for most of the global

attracted to the city for work

EU countries

Challenges

Poverty

security.

Traffic Issues

Urban decline

### Way of Life

The UK has huge numbers of cultures and races, as well as white British people there are huge numbers of migrants from India, Pakistan, Bangladesh, Canada, USA, Kenya, Zimbabwe and other ex-British colonies London houses a major world financial

centre and a range of business specialisms finances too. It has the stock exchange. It is which attract a highly also home to large MNCs. London is also a skilled workforce.

> However London's unemployment rate was sanitation. one of the highest in the UK



Often people who live in inner-city areas experience a poor quality of life. This is

because the inner-city is typically a zone with older housing and declining industry.

London has massive problems with congestion. From the 1950s, car ownership has

grown at a very guick rate. The increasing population of the city has meant roads are

crowded and transport services such as the underground and buses struggle to cope

Some areas of a London suffers from out-migration of people and businesses, derelict

buildings, high unemployment. This was common in the inner cities of the UK in the

There is a lack of housing provision; access to services; access to open land;safety and



Reasons for growth

Migration - the pull factors for Mumbai are cheap rail travel, jobs and better education. The push factors from the surrounding countryside are poor standards of housing, healthcare and

Connections – Mumbai is the financial capital of India and home to the stock exchange. It is also home to large MNCs.

### Mumbai (NIC global city)

### Way of Life

Mumbai is a city of contrasts. One obvious one is the difference between rich and poor. Many well education people live in expensive properties while the majority of the city live in slums and work in the informal economy (in roles such as street vendors and rubbish collectors)

In the slims there is a lack of sanitation. adequate housing and open sewers are just some of the issues that face people living in these areas. Disease often spreads guickly due to the conditions and lack of health care facilities.

### Informal sector

Wages are low = families unable to save and cannot afford to send children to school = children fail to get an education and forced to work in informal sector Informal workers don't pay tax = government does not raise income and cannot afford to invest in schools or hospitals = children fail to gain a good education and forced to work in the informal sector.

### Challenges

Reducing poverty and deprivation - with such a large proportion of people living in slums. Education opportunities for these people are being increased, in addition to improved healthcare and sanitation. Housing – the majority of people live in slums, are pavement dwellers or live in crawls (four or five story tenement buildings with shared facilities). These areas suffer from overcrowding and the risk of fire, flooding or collapse.

# Home study questions

1980s, leading to further poverty in these areas.

### DEVELOPING

Define what an rural-urban continuum is [2 marks]

Explain how the spiral of deprivation leads to depopulation [4 marks]

### SECURING

**Analyse** the distribution in global cities around the world (2.3.1) [6 marks]

Explain why building on brownfield sites is more sustainable than on greenfield sites [4 marks]

### MASTERING

'The challenges associated with an NIC global city are more difficult to solve than those of HIC global cities' To what extent do you agree with this statement? [8 marks]

Decide why Europe and North America has the most significant concentration of global cities [6 marks]

### **CHALLENGE**

Link greenfield and brownfield developments to as many different elements of this module as possible

Create a spider diagram to show how Newcastle is linked to the rest of the world (a connected global city)

CLICK ME Find a playlist of explaine 3.1.1 - Tectonic processes and landforms clips by scanning or clicking the QR code Π3 Tectonic plates Constructive Constructive margi Mid-oceani SCAN ME ridge

# **Tectonic** hazards

MSN 2020

Feature



Geography Knowledge Organiser

# 3.1.1 - Tectonic processes and landforms

Volcanic landforms Shield volcano characteristic Stratovolcano characteristic Low profile High profile Wide base Narrow base Thin runny lava Made up of layers of lava Frequent and gentle eruptions

How it is formed

### Thick, slow lava Made up of layers of mainly ash Infrequent and violent eruptions Found at

Ocean trench	Where subduction takes place	Destructive
-old mountain	Continental crust is crushed and folded upwards	Destructive
Dcean ridge	As lava cools a ridge is formed under the sea	Constructive
Rift valley	Where 2 continental plates pull apart	Constructive
Caldera	A large depression or crater formed by large stratovolcanoes or supervolcanoes	Destructive & hotspo
Cinder cone	Bowl shaped crater of a shield volcano	Constructive
.ava tube	Under the ground, basic lava develops a hard crust through which lava flows	Constructive
Geysers	Water in the ground heated by the magma explodes onto the surface	Destructive & hotspo
	-	-



The earth is made up of a series of layers. The outer layer is called the crust. This is made of 2 different types:

Continental Crust (which is on average 35km thick) Oceanic Crust (which is much thinner, between 6-8km)



Heat from the core causes convection currents in the mantle and these currents slowly move the plates

# 3.2.1 - Tectonic impacts

### Volcano effects

- MONTSERRAT 1995-7 Health - Ash clouds caused breathing problems
- 19 deaths - 100s injured

### 4 Infrastructure

- The capital, Plymouth, has been covered in lavers of ash and mud - Lahars have destroyed large areas urban areas - The only airport was destroyed

### Economy

- Farmland abandoned (significant unemployment) - Prevented tourism so tourism economy suffered - Capital city is abandoned and rebuilt in the north

Duration - the longer a hazard lasts the more severe the impact

Predictability -hazards that hit with no warning have a larger impact

Lahars - Volcanic mudflows consisting of a mixture of ash and water (Local)

Ash clouds - Ash thrown into the atmosphere (Regional/National/Global)

Lava flows - Molten rock flows down the side of a volcano (Local)

Pyroclastic flow - Burning clouds of gas and ash (Local)

Physical factors

Volcanoes

### **HAITI 2010** <u>Health</u>

Oceanic crus

Deep ocean

Conservative

Destructive

trench

### 250.000 people died.

- 300,000 people were injured.

Earthquake effects

- Cholera spread through temporary camps

### Infrastructure

- Airport and port damaged - 30,000 buildings collapsed
- Hospitals and medical centres were destroyed

### Economy

- Damage to the main clothing industry
- Tourist industry will take years to recover - Infrastructure damaged reduced trade, imports
- and exports

Economy - Fishing industry devastated

Health

Infrastructure

destroved

- Over 220 000 deaths

airports were destroyed

- Water supplies contaminated

- 650 000 injured

Tectonic boundaries

Oceanic crust

Friction builds un

plates force

Fold

mou

Hot spot

Pacific Plat

- Tourism, dropped 80% - Reconstruction cost billions of pounds

- 5-6 million needing emergency aid

### Vulnerability to tectonic hazards

### Human factors Wealth - poor people are less able to withstand disasters and recover from it Education - where populations are able to read and write, written messages can be used to spread warning or give advice about how to cope Governments - can support education and and can pass building regulations Age - children and the elderly are more vulnerable Health - healthy people are more able to cope Population density - the more people living in the area the more that will be affected Time of the day - e.g. earthquakes in rush hours have a more devastating effect

Emergency services - richer countries have well trained and well resourced response

**Earthouakes** Magnitude - the stronger the hazard the more severe the impacts

Oceanic crus Magma plum 1. Intense radioactivity in the Earth's

Island chain

interior creates a large column of magma (known as a magma plume)

2. The plume rises, melting and pushing through the crust above

3. The plume lies in a fixed position under the plate – as the plate move over it, a series of new volcanoes are created along the plate

**Tsunami effects** 

- 1.000s of railway lines, roads, bridges and

- Hospitals within 30mi of the coastline were

SOUTHEAST ASIA 2004

### MSN 2020 3.2.2 - Tectonic management

### Earthquakes are difficult to predict but there are some monitoring techniques:

- Laser beams can detect plate movement

- A seismometer is used to pick up vibrations in the earth's crust. These can lead up to an earthquake

### Monitoring Techniques used to predict volcanic eruptions include:

- Remote sensing. Satellites monitor gas emissions and thermal imaging can work out the temperature within the volcano.

- Seismometers can pick up movements in the earth which sometimes occur before an eruption.

### Tsunami warning system:

- Following the 1960 Chilean earthquake the Pacific countries decided to set up the Pacific Tsunami Warning System (PTWS).

- This is a network of seismometers and ocean buoys that detect earthquakes and ocean movements.

- Warnings are then given to local centres, which warn local people using the TV, radio, text messages and sirens.

### Hazard planning strategies

Hazard Mapping highlights areas affected by or vulnerable to earthquakes, volcanoes and tsunamis so planning and money can be targeted at these areas New building technology can also reduce the impact of earthquakes. Often they are built to absorb the energy and withstand the earth's movement

### Emergency planning:

An exclusion zone can be set up around a volcano



Lava flows can be diverted

Emergency services can be trained and given the equipment needed People put together emergency kits which include first aid items, blankets etc.

# Home study questions

### **DEVELOPING**

Describe how a hot spot creates island arcs [2 marks]

Compare the differences between shield volcanoes and stratovolcanoes [4 marks]

### SECURING

Analyse the distribution of the 3 different plate boundaries around the world (3.1.1) [6 marks]

Explain how tsunamis impact the health and infrastructure of a country [6 marks]

### MASTERING

'Human vulnerabilities are responsible for more deaths than the physical risks associated with tectonic hazards' To what extent do you agree with this statement? [8 marks]

Explain how tectonic hazards are managed [4 marks]

### CHALLENGE

Research the responses to the 3 hazard case studies (Montserrat, Haiti and SE Asia) and add these to the space below

Explain how tsunamis are a secondary effect of earthquakes



Т5 **Climate Change during the Quaternary Period** 50° SCAN ME 40% ature Weather, climate 30° empe 20° Glacia and ecosystems 10° 400.000 300,000 200.000 100.000 Years Ago Over a long period of time (the last 400,000 years) there have been natural cycles of cooling and warming. The periods of time the average global temperature was below 15°C are known as glacials, and periods of warmth are known as interalacials.

CLICK ME

Find a playlist of explaine

the QR code

clips by scanning or clicking

### Evidence for climate change

**5.1.1** - Climate change evidence

Ice cores from the Antarctic show the amount of CO<sub>2</sub> and methane in the atmosphere have changed over the last 420,000 years 

Historical records, such as diary extracts



Measurements by the met office show temperature has increased by 區 0.6°C over the past 100 years.

# 5.1.2 - Climate change causes



High pressure & droughts

As the air cools in the outer atmosphere it becomes heavier and starts to sink. This

surface it starts to warm again and the cycle continues. High pressure can produce a

air moves back to the ground. This is called high pressure. As the air reaches the

hazard called a drought - a long period of no available water due to intense heat.

### Greenhouse effect



The greenhouse effect is natural but humans have worsened the impacts. Carbon Dioxide and Methane are greenhouse gases which trap heat in the atmosphere. As more gases build up more heat is stored, warming the planet.

### 5.2.1 - Weather hazards

Geography Knowledge Organiser



MSN 2020

1. At the equator insolation heats the Earth which heats the air above

2. Hot air rises creating low pressure - as it rises it travels north and south

3. This air eventually cools and sinks at about 30° north/south of the equator - this creates high pressure

4. This air then returns to the equator (known as the intertropical convergence zone ITCZ)

### Low pressure & tropical storms

Warm air rises because it is less dense. When it reaches the edge of the atmosphere it cannot rise any further and moves north and south. The edge of the atmosphere is cold and so the air cools too. Low pressure can create a hazard called a tropical storm, which is also known as a hurricane, cyclone or typhoon

### Tropical storm causes (CYCLONE PAM 2015)

Occurred near the island chain of Vanuatu in the South Pacific Tropical storms can only form over large/deep oceans Ocean temperatures of at least 27°c Water depth of at least 50 meters Gentle winds in the atmosphere to draw air up from water surface

### Tropical storm effects (CYCLONE PAM 2015)

11 people died 90000 homeless Hospitals and schools destroyed Widespread destruction of fruits, vegetables, root crops and livestock Stormsurge flooded coastal areas and contaminated freshwater supplies

### Tropical storm responses (CYCLONE PAM 2015)

Emergency aid sent by Australia, Fiji, New Zealand and UK 153 temporary school built Repairs to infrastructure to provide safe drinking water Blankets & tents given to those made homeless 28 schools used as evacuation centres



hurricane winds and rain

A hosepipe ban was introduced warm moist air Homes were destroyed by wildfires

a heat wave.

nterolacial

Today

Hydroelectric power dams stopped producing electricity Crops could not be grown and 17,000 agriculture jobs were lost Fish died as high temps caused an oxygen decrease

### Drought responses (California 2012)

Drought causes (CALIFORNIA 2012)

Drought effects (CALIFORNIA 2012)

The jet stream was further north that normal,

pushing low pressure systems north and allowing

12,500 water metres installed in homes 400,000 water saving toilets installed 3.2 million square feet of turf removed. 50% of Orange County's water supply is now imported from other areas.



# 5.2.2 - UK weather variations

Weather - the conditions of the atmosphere over a short period of time, often a day Climate - the weather of a place averaged over a period of time, often 30 years

### Factors affecting Climate in the UK



Microclimate

Physical features - hills, trees can block the wind and sun. Water cools the air Shelter - Buildings, trees and hills can shelter from the wind Surface (albedo) - dark surfaces heat up quicker than light surfaces Buildings - Buildings store up heat and redirect wind direction Aspect - locations facing south have sun all day, the north doesn't receive sunlight

# 5.3.2 - Ecosystem processes

### Savanna characteristics

Grasses and trees - The savanna is a grassland with scattered trees and shrubs. Rainy and dry seasons - Savannas have two distinct seasons in regards to precipitation. There is a rainy season in the summer with around 15 to 25 inches of rain and a dry season in the winter when only a couple of inches of rain may fall. Large herds of animals - There are often large herds of grazing animals on the savanna that thrive on the abundance of grass and trees.

Warm - The savanna stays pretty warm all year.

### Nutrient cycle

Nutrients are cycled guicky during the dry All most all rain falls during the rainy season in the tropical heat. Wildfires are common and nutrients are returned to the stores this water for the dry season. Little soil when vegetation burns.

season. Vegetation guickly absorbs and water is lost by transpiration due to waxy leaves and low surface area of the plants.

Water cycle

co,	Carbon cycle	205

Majority of carbon is stored in vegetation with a lesser amount in soil. During dry seasons, wildfires can burn vegetation, releasing CO<sub>2</sub> into the atmosphere.

Key services Preventing Soil Erosion Carbon Storage Provisioning Goods (food, fuel)

### Small scale ecosystem: sand dunes

Sand Dunes are a build up of sand around vegetation. This requires loose sand and prevailing winds which blow on-shore. They are formed through a processes known as succession. As plants die and decompose it nourishes the soil making it better quality and now more fragile plants will start to grow.

# 5.3.1 - Ecosystems



Large scale ecosystems are known as biomes.

Climate - the most important factor in determining their distribution Rainfall - the amount and patterns determine the distribution of biomes Temperature - when rainfall is reliable and distributed evenly temperature becomes the most important factor

### Other factors can also have an influence e.g.

Tropical rainforests are located either side of the equator where hot and wet conditions allow continuous growth of plants

Array cable c

Project area Turbine area

10 km

# 5.4.1 - Human uses

Gwvnt v Môr offshore wind farm Offshore wind farms are located in the sea close to the shoreline as winds are stronger, unobstructed and do not impose on cities/population as much. Gwynt y Môr is located 15km off the north coast of Wales

The demand for renewable energy is increasing as non-renewables such as coal and gas are depleting



Produces power for 400,000 homes

Creates 100+ jobs

Disadvantages RSPB says it affects bird migrations and their normal routines National Trust has concerns over affecting heritage and tourism

Helps with global climate change efforts beauty

# 5.3.2 - Ecosystem processes

### Tropical rainforest characteristics

<ul> <li>Shrub layer. It is dark and gloomy with very little vegetation.</li> <li>Under canopy. It is the second level up. There is limited sunlight. Saplings wait here for larger plants and trees to die</li> <li>Canopy. This is where the upper parts of most of the trees are found. The canopy is typically about 65 to 130 feet (20 to 40 metres) tall.</li> <li>Emergents. These are the tops of the tallest trees in the rainforest. These are much</li> </ul>			
higher, and so are able to get more light the	an the average trees in the forest canopy.		
Nutrient cycle	Water cycle		
The rainforest nutrient cycling is rapid. The hot, damp conditions on the forest floor allow for the rapid decomposition of dead plant material. This provides plentiful nutrients that are easily absorbed by plant roots.	The roots of plants take up water from the ground and the rain is intercepted as it falls - much of it at the canopy level. As the rainforest heats up, the water evaporates into the atmosphere and forms clouds to make the next day's rain.		
💿 Carbon cycle	Key services		
Rainforests contain about 40 to 50% of the carbon in the biomass, and very little in the soil due to the rapid nutrient cycling	Regulating climate and air quality Preventing Soil Erosion Carbon Storage Provisioning Goods (food, fuel) Flood prevention		

### Biodiversity

Biodiversity is the variety of plant and animal life in a particular habitat, a high level of which is considered to be important and desirable. The tropical rainforest has a higher level of biodiversity than savannah

Advantages:

Disadvantages:

rainforest communities.

and for rearing cattle.

# 5.4.2 - Human impacts

### Tropical rainforest uses

### Savanna uses

Small-scale farming provides food for

Raw materials, eg fuel (firewood)

Large areas of grassland have been

Animals have been hunted for their

valuable body parts or for sport.

turned into farmlands for growing crops

### Advantages:

Infrastructure, hospitals and education can be improved

such as ebony and mahogany, can be

Large-scale farming brings money into the country and provides food and jobs. Small-scale farming provides food for rainforest communities.

Land clearance for farming. transportation and mining can lead to deforestation.

Loss of fertile soils that make farming possible are quickly washed away when the forest is cleared.

Loss of animal habitat occurs when trees are cut down. Hence, deforestation can result in endangering animals and plant life, or even causing them to become extinct







Locals are opposed as it spoils the natural

### Raw materials, eg tropical hardwoods sold for a good price abroad.

### Disadvantages:

Loss of fertile soils that make farming possible are quickly washed away when the forest is cleared.













# **5.4.3** - Ecosystem management

ъ.

ば

### Tropical rainforest management



**Agro-forestry** – growing new trees alongside crops



Eco-tourism – encouraging small groups of sustainable tourism. Money made is used to protect the ecosystem and uses local tour guides and companies.

**Debt-swaps** – HICs cancel debts which LICs have, if they protect their rainforests from over-exploitation



Crop rotation – growing different crops and giving the land time to rest between planting to allow soil to recover nutrients

Afforestation – planting more trees to protect the soil

Drought-resistant crops – Planting genetically modified crops which can withstand long periods of water shortage



Population control -

### DEVELOPING

Describe the economic effects of a low pressure hazard [3 marks]

Give three ways that humans have influenced the carbon cycle [3 marks]

### SECURING

Analyse the pattern of temperature change over the last 450 million years (5.1.1) [6 marks]

Explain how low pressure systems forms [3 marks]

Home study questions

### MASTERING

Discuss how sustainable the use of one ecosystem is [8 marks]

Explain the factors that influence changes in weather for the UK [6 marks]

### CHALLENGE

**Decide** how deforestation would affect the nutrient, water and carbon cycles in the tropical rainforest - present your decision as a paragraph or concept map

Evaluate how successful you think management strategies for the savanna ecosystems are



MSN 2020

Τ6

clips by scanning or clicking



# **Development and**

# resource issues



Geography Knowledge Organiser

# 6.2.1 - Uneven development

### Tourism

As a result of globalisation the tourist industry has grown rapidly. It now accounts for 1-in-11 jobs worldwide. It is increasingly becoming important for low and middle income countries. Rapid growth is due to:

Early retirement & higher life expectancy mean people can spend time travelling People earn more so have more disposable income

Modern aircraft make is cheaper and guicker

The internet allows people to research destinations



Mass tourism Where tens of thousands of people going to the same resort often at the same time of year



Where tourists pay one price and get all travel. accommodation, food and drink in one place

Cruise holidays Cruise ships sell all inclusive packages

### Advantages of tourism in LICs

of thousands indirectly, bringing billions to the economy

Tourism is encouraging new skills and improving language skills of locals

New services such as transport can be used by tourists and locals

New national parks are being created to protect wildlife and encourage tourism



### Disadvantages of tourism in LICs Employs thousands directly and hundreds Many tourist development are partly owned by foreign companies. Some profits leak (send) overseas Jobs are seasonal, many people lose their jobs in the wet or winter season

The growth of sex tourism can become an issue in some countries

The arrival of tourists can cause a decline in local cultures, for example loss of language or religious traditions

# 6.1.1 - Measuring development

### Measures of development

Gross domestic product (GDP) - the total value of all goods and services produced within a country

Gross National Income (GNI) - (per capita) average wage per person *Å* Employment structure - the type of work people do (for example,

primary, secondary, tertiary)

Poverty - the % of the population that earn less than \$1.90 a day

### Ð Limitations of these measures



### Development continuum

A development gap exists between richer and poorer countries. The "Brandt" line splits the world into more developed "global north" countries and less developed "global south" countries.

Less developed		More d	eveloped
<b>O</b>	<b>O</b>	<b>o</b>	<b></b>
LIC	Lower middle	Upper middle	HIC

However, the Brandt line is a bit too simplistic. In reality there is a "development continuum". This is a sliding scale from super rich countries to the very poor. The World Bank splits countries into 4 categories based on their Gross National Income (GNI): HICs with GNI of \$12,736 or above

Upper Middle Countries with GNI between \$4126 and \$12735 Lower middle countries with GNI of \$1046 to \$4125 LICs with GNI of \$1045 or less

# 6.2.2 - Managing development

### Aid

Aid is the transfer of resources from a richer country to a poorer country. Different types of aid include:

Bilateral aid – between two countries

Multilateral aid - money donated by richer countries via organisations such as the UN

Short term emergency aid - immediate relief following a natural disaster Long term development aid – a sustained programme of aid which aims to improve the standard of living

Debt abolition - when richer countries cancel debt owed by poorer countries Aid from non-governmental organisations (NGO's) - given through charities such as Oxfam.

L		
	Advantages of aid for LICs	Disadvantages of aid for LICs
	Emergency aid saves lives and reduces misery	Aid can increase dependency on the donor country
	Development aid can lead to long term improvements and increase standards of	Profits from the large projects can go to multinationals and donor countries
	living Assistance in developing natural resources benefits global economy	Aid doesn't always reach the people who need it and can be kept by corrupt officials
	Aid for industrial development creates jobs and aid for agriculture increases food supply	Aid can be spent on prestige projects in urban areas rather than in the areas of real need
	Provision of medical training and supplies improves health	Aid can be used as a weapon to exert political pressure on the receiving country

# 6.2.1 - Uneven development

### Causes of uneven development

Trade involves buying goods from other countries (imports) and selling them (exports) HICs generally export valuable goods such as electronics, cars and financial products. They import cheaper primary products like tea, sugar and coffee. LICS do the opposite. This means they earn little and remain in poverty

The prices of these products go up and down but HICs tend to have the biggest influence over them. LICs lose out when the price drops, but have little control over it. Increasing this trade and changing the balance of imports/exports is essential for LICs to develop. Some HICs impose tariffs (import costs) and quotas (a limit to the amount of imports) which also affects LICs.

### Multinational corporations (MNCs)

MNCs have grown as a result of globalisation. Often they are free to decide where they locate many aspects of their company. The headquarters if usually found in a global city such as London. However, other parts of the company can be located around the world. Factors like government incentives, location of raw materials, labour costs and reduced costs for buildings and land make a difference.



Advantages of MNCs in LICs	Disadvantages of MNCs in LICs		
Created jobs and improved local skills	Investment could be transferred to other		
Pays higher wages than most local	countries quickly		
Companies	They has large demand for energy/water		
Helped attract more MNCs	They have reputation for workers abuse		
Contributes to tax which helped pay for schools, hospitals etc.	They might undermine national culture		

# 6.3.1 - Water demand



### Population is rising

Economic development - The more developed a nation the more water used Increased need by agriculture - irrigating crops

Industrial growth - As more MNCs invest in NICs and LICs the more water needed Consumerism - HICs use appliances like dishwashers and washing machines

### Water footprint - a measure of humanity's use of fresh water and/or polluted

We don't just use water to drink and for hygiene reasons. 70% of our water is used to produce food (crops & animals). Industries use water in 'cooling processes'. Water is need in thing like clothing - fabrics have to be grown.

### Water security - the capacity to safeguard the sustainable availability and access to drinking water

The UK generally have excellent access to water all year round. Some places don't, where water isn't clean or alway available. Sometimes it's too expensive to transport or access (economic scarcity) or it's not available due to droughts (physical scarcity).

# 6.3.2 - Water sustainability



Dams: Dams block the flow of a river, creating a large reservoir to the rear which can be used all year round. Dams can be expensive to build, and the reservoir may flood local settlements and ecosystems.

Water transfers: When water is transferred to from an area that has a surplus of water to an area that is experiencing a shortage. This may be conducted within a country, but it can also be conducted from one country to another. For example, Lesotho transfers water to areas of South Africa experiencing physical water scarcity.

Desalination plants: Desalination is the process by which salt is extracted from water. At these plants, salt is removed from seawater to make it safe to drink. Such plants are extremely expensive to run.

Water conservation: This is when an attempt is made to actually use less water in the first instance. For example, many toilets have dual-flush systems to reduce the amount of water used. In addition, meters may be installed within households so residents can check their water usage

### **Over-abstraction of groundwater**

India is a country that is over extracting its groundwater (the water table is 4m lower than in 2000)

### **Reasons for this**

Some states like Gujarat have a long dry season

Surface stores (like reservoirs) are often polluted

Cheap electricity has encouraged farmers to dig deeper wells

### Solutions

The government can build more dams (this is an example of top down development) Farmers could be encouraged to conserve water e.g. rainwater harvesting (this is bottom up development)

# 6.4.3 - Managing UK development

### Positive multiplier effect

Regional inequality can be reduced by investment in deprived areas of the UK. Various strategies have been used in the past which usually includes investing in infrastructure in an area which is deprived to try and promote a **positive multiplier** effect. However, when industries close there is also a negative multiplier effect.

### **National strategies**

Giving power to local authorities e.g. regional mayors (Manchester/Leeds)

The creation of the "Northern Powerhouse" which is a proposal to boost economic growth in the North of UK, this would attract investment and create skilled jobs in the area

The improvement of transport links to the Newcastle Enterprise Package -Northern places in the UK. This improves accessibility, attract new investment and therefore may create a positive multiplier effect (eq. HS2)

Relocation of major business and offices, Development Fund supporting the sometimes head offices in other parts of the UK, such as Manchester. This encourages other businesses to invest in the areas



### Local strategies (Newcastle)

supporting new business

Newcastle Science City - a partnership between Newcastle University, Newcastle City Council and the European Regional innovation and technology sectors

The Millennium Bridge - crossing the river Tyne

# 6.4.1 - NIC regional development



people had more rights than others). Although it's illegal now it still has an impact on people today with types of jobs people can do.

Girls and women are discriminated against particularly in rural areas

### Home study questions

encourages families to have fewer children =

conflicts/wars and is in a mountainous area =

not very populated, poor access, dry climate.

Maharashtra (in the east) has the capital city

better quality of life (less pressure on

Kashmir (in the north) has seen

and attracts lots of industries like

manufacturing and has ports for trade

### **DEVELOPING**

resources)

Outline the measures of economic development [3 marks]

Give three reasons why LICs receive less money from international trade [3 marks]

### SECURING

Analyse the pattern of global water usage (water footprint) (6.3.1) [6 marks]

Describe what a water footprint is [2 marks]

### MASTERING

Evaluate which factor/reason (social, economic or political) is the most significant cause of UK regional inequality [8 marks]

Decided whether foreign aid is overall a good or bad thing for LIC development [8 marks]

### **CHALLENGE**

Create a concept map to show how MNCs and tourism are linked and how these are also linked to uneven development in LICs/NICs

Research how the High Speed railway 2 (HS2) project will have benefits for the north of England





There is a north-south divide in the UK for development. The divide recognises the social and economic differences between Southern parts of the UK (more developed) and the rest of the UK (less developed).



With the largest markets located in the south-east, which also includes good access to European markets, companies have greatest potential to maximise profits by locating in the south.



With over 20 million people of the UK's population living within a one hour commute of London, many businesses prefer to locate themselves close to their customers, and within commuting distance of their staff. Many universities are in the south of the UK, including Oxford and Cambridge, which provide many workers - who employers may perceive as being most skilled and desirable.





Many large companies have headquarters (HQ) in the south-east. making it easier to make crucial decisions. Even though government policy has tried to encourage investment in other parts of the UK it is still more convenient for other smaller businesses to start up where there is already infrastructure to support.



Find a playlist of explaine clips by scanning or clicking the QR code



SCAN ME

Literacy rates



MSN 2020

l∎Þ



Geography Knowledge Organiser

Child labour

It is estimated that there is currently 168 million child workers and 73 million of these

are children under the age of ten. Sub-Saharan Africa has the highest number of child

7.2.1 - Development issues in Africa and Asia

### 7.1.1 - Measuring development | 7.2.1 - Development issues in Africa and Asia

development indicators and measures a country's progress across a range of factors:

Gross national income (GNI) - The average income in a country per person

QQ Measures of social development	Changing birth rates and death rates			
Life expectancy - The average age a person is expected to live Literacy rates - % of people in a population that can read or write	Higher birth rates	Lower birth rates	Higher death rates	Lower death rates
Infant mortality rate - Number of babies per 100 live births who die under the age of 1 Average number of people per doctor Average food (calorie) consumption Number of homeless people Deaths from unsafe water and sanitation	Children provide labour on farms (E) Large families are seen as a sign of virility (S) Women may lack oducation and stay	People tend to marry later and therefore have reduced child -bearing years (S) Women are	HIV, Ebola and other difficult to control diseases are having an impact on death rates in LICs (S) In HICs, the increasingly biober	Better healthcare and vaccination programmes are more available to people ( <b>P</b> ) Less physically domanding lobs put
Measures of gender development	at home to raise a	follow careers which	proportion of elderly	less stress on
Gender equality is ways in which a country can be measured through social development. So a comparison between genders is useful, such as: Fertility rate – The average number of births to a woman in her lifetime Male/female literacy rates Male/Female life expectancy Male/female food consumption Male/female employment rate Gender development index (GDI) - measures gender inequalities in three key aspects: reproductive health, empowerment and economic status	family rather than work (S) A high infant mortality rate encourages larger families to ensure survival of some children (S)	delay starting families ( <b>P</b> ) The high cost of living means it is expensive to raise children ( <b>E</b> ) Couples prefer to spend money on holidays & cars ( <b>E</b> )	people in ageing societies is leading to an increase in death rates (S)	people physically (S) People are educated about health and hygiene (P) Water supplies are more reliable and cleaner (P)
		Populatio	n structure	
Human development index (HDI) A measure of the development in a country taking into account wealth, education and average life expectancy. The human development index (HDI) is calculated from four	Narrow peak = Lower life expectancy	Stage 2 - LIC	Stage 3 - NIC	Wide peak = Higher life expectancy



# 7.2.2 - Health issues in Africa

### High infant mortality rate (IMR)

Neonatal infection - a high rate of infection from the process of delivering the baby 10% of early childhood deaths are caused by diarrhoea

The lack of skilled birth attendants leads to many children dying

within 24 hours of being born Lack of vaccinations and mosquito nets to stop diseases

### Malaria

### Human immunodeficiency virus (HIV)

HIV is disease which attacks the body's immune system. Over 70% of people who have HIV live in Africa. Infection rates are higher in urban areas

Emotional impact on relatives and families, as well as on the individual (S)

Cost involved in treating the disease, eg. drugs means that most people go without treatment (E)(S)

Those infected will not eventually be able to work, lowering the productivity and potential wealth of a country (E)(P)

Leads to fewer jobs and less wealth in a country (E)

Children may be left without parents and brought up by their grandparents (S)

on by parasites in mosquitoes. Infection rates are higher nearer water sources like lakes

Large number of children aged under five die (S)

Adults are too weak to work which leads to a loss of productivity (E)

People remain poor and do not have a lot to eat (S)(E)

A country's limited resources are used up in health care rather than in education or improving services (E)(P)

Tourists may be less likely to visit a country so there is less revenue (E)

workers mainly working on farms farming products such as cocoa and cotton. Poverty - parents need money or their parents have died No (free) education - have to pay or no formal education AIDS - Disease means a lot of middle-aged people are too ill or have died - so children are the only option

### Primary education challenges

In 2010 there were 4.98 million children in child labour, whereas by 2011 there were 4.35 million child labourers. The lack of education is a key cause of child labour. Out of the 62% of India's children that do not attend school, 62% of those are girls. The reasons for this include:

Poor quality of school buildings, facilities and teaching.

Attitude to women in society: many families still have an oppressive attitude towards women

Many girls are expected to marry young through arranged marriages.

The fear that sexual harassment of girls may bring dishonour to the girl's family.

### Responses to child labour

The International Labour Organisation (ILO) - It collects data from different countries and uses this data to set targets which can be used to monitor progress. The ILO then makes recommendation to individual governments as to how this can be achieved in their country which frequently include:

Improving access to education for all children so that they can succeed in life Creating more trade unions to prevent and protect against child labour Improving social security systems so that the poorest in society are supported rather than them relying on their children (sick pay & unemployment benefits)

International refugee movements

Forced migrants are those we call refugees and asylum seekers. They have been pushed out of their homes but there aren't pull factors attracting them to somewhere Refugee - Someone who has fled their home due to serious risk to life or liberty Asylum seeker - Someone who has applied to another country for protection/support as a refugee

### **Causes of forced migration**

Lack of food/water - often causes by droughts or blights (plant diseases) Natural disasters -flooding, earthquakes, tsunamis etc.

War & conflict - either between countries or civil war (inside one country) Persecution - risk to life or liberty due to politics, sexual orientation, religion, ethnicity

### **Responses to forced migration**

### National governments in Europe

Average length of schooling in years

- Germany and Sweden see the refugees as victims and have welcomed them to their countries and help them to integrate into their societies

- Austria is trying to limit the number of refugees to 80 a day

- The UK has agreed to accept 20,000 refugees from Syria by 2020 and it will accept more unaccompanied Syrian child refugees

### International agreements

With an increasing numbers of migrants from Asia and Africa reaching Europe illegally the following changes have been made:

- In 2016 border controls were temporarily introduced to 7 Schengen countries - An EU naval operation has been put into place to monitor the Mediterranean Sea to prevent human smuggling and trafficking

- EU member states agreed to provide task forces of national experts and support teams to work in hotspots such as Greece and Italy to expedite refugee screening

















# 7.2.2 - Health issues in Africa

### Health issues responses

**F** Investment in medical care and treatment in hospitals (HIV/Mal)

Health campaigns (adverts) about risks and prevention (HIV/Mal)

Free condoms (HIV) and mosquito nets for beds (Mal)

UN's AIDS Fast Track programme - leading education & funding (HIV) UN's 'roll-back malaria' programme which leads a worldwide

government response (Mal)

The 'Roll Back Malaria' initiative had over 500 partners working together to provide a co-ordinated response to the disease. One of the UN's Millennium Development Goals is that the incidence of the disease should have reduced by 2015. Today the UN fast track strategy is aiming to end the epidemic by 2030 through contraception, education and medication.

Top-down approach

Decisions are made at governmental level Decisions are made by the local and usually involve a high cost. decisions have no say as to what is done. help themselves.

¢¢≙

communities that they will affect. They try Communities likely to be affected by the to help communities by helping them to

are that they may be part of a strategic are that they are small scale and so cost plan which aims to develop the infrastructure of the country. However, the usually meet the needs of the local frequently lead the country into debt and community better. the jobs that are created are often not for the local community.

The advantages of these types of schemes The advantages of these types of schemes much less, are more sustainable and

Bottom-up approach

# Home study questions

### **DEVELOPING**

Describe the economic effects of a low pressure hazard [3 marks]

**Explain** why using HDI is better than GDP or GNI for measuring development [4 marks]

### SECURING

Analyse the differences between the stage 2 and stage 3 population pyramids (7.2.1) [6 marks]

Explain why infant mortality rate (IMR) is an important factor to judge development [3 marks]

### MASTERING

Evaluate how successful the responses have been in stopping international refugee movements into Europe [8 marks]

Discuss why poverty and poor development often leads to more child labour [6 marks]

### **CHALLENGE**

Discuss how diseases like HIV and malaria can have significant impacts on a country's social and economic development. Record your discussion as a paragraph or spider diagram

Evaluate whether top-down or bottom-up approaches are better for improving the health development of LICs

