

Geography Department

KS4 High Achievers Booklet



Remember to read the relevant pages in the cool geography textbook or on the website BEFORE you do

the tasks

http://www.coolgeography.co.uk/members/

Username: smo@sjcs.org.uk

Password: Geog16



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Paper 1 (Physical Geography)

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	(ENERGY)	
•	The Challenge of Resource Management	Page 65 – 77
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•	Urban issues and challenges	Page 39 – 49

	1.02 Factors affe					
Read pages 2 to 4 of the Challenge of Natural Hazards textbook						
Distinguish between a natural hazard and a natural event						
Try to make a list of th	ne types of hazards the UK	could face i	n the table belo	w;		
Tectonic hazards	Geomorphological	Atmosp	heric hazards	Biologica	logical hazard	
	hazards					
Rank the 8 factors tha	at affect the amount of dan	nage created	d by a hazard fro	om 1, most	hazardo	
8 least hazardous, in t	the table. Justify your top i	_	_	om 1, most		
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	d by a hazard fro	om 1, most	Rank	
8 least hazardous, in t	the table. Justify your top in ranked item.	ranked	_	om 1, most		
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	_		Rank	
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	Factor		Rank	
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	Factor Natural factors		Rank	
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	Factor Natural factors		Rank	
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	Factor Natural factors type Magnitude	s like rock	Rank	
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item.	ranked	Factor Natural factors type Magnitude Frequency Population der	s like rock	Rank	
8 least hazardous, in to tem and your lowest My top ranked factor	the table. Justify your top in ranked item. isbecause	ranked	Factor Natural factors type Magnitude Frequency Population der distribution	s like rock	Rank	
8 least hazardous, in t item and your lowest	the table. Justify your top in ranked item. isbecause	ranked	Factor Natural factors type Magnitude Frequency Population der distribution Level of develo	nsity and	Rank	
8 least hazardous, in to tem and your lowest My top ranked factor	the table. Justify your top in ranked item. isbecause	ranked	Factor Natural factors type Magnitude Frequency Population der distribution Level of develor Management (nsity and ppment prediction,	Rank	
8 least hazardous, in to tem and your lowest My top ranked factor	the table. Justify your top in ranked item. isbecause	ranked	Factor Natural factors type Magnitude Frequency Population der distribution Level of develo Management (preparation, pre	nsity and ppment prediction,	Rank	
8 least hazardous, in to tem and your lowest My top ranked factor	the table. Justify your top in ranked item. isbecause	ranked	Factor Natural factors type Magnitude Frequency Population der distribution Level of develor Management (nsity and ppment prediction,	Rank	

1.03 Global distribution (where they are) of earthquakes and volcanic eruptions

Read pages 5 to 6 of the Challenge of Natural Hazards textbook

1. Draw a simple copy of figure 4 then add one fact about each zone of the Earth's Structure

2. Define the terms;

a) Tectonic Plate_____

b) Plate margin_____

Contrast the characteristics of continental and oceanic crust

Make a bullet pointed list of where we get volcanoes around the

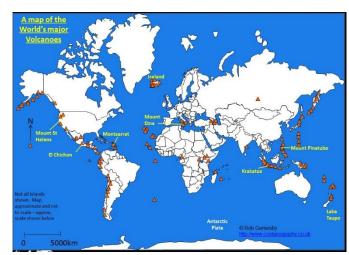
world. Contrast this with the plate margin map on page 6

•

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•

•



1.04	The physical processes taking place at different types of plate boundaries (constructive,	destructive
	and conservative) that lead to earthquakes and volcanic activity.	

- 1. Read pages 7 to 8 of the Challenge of Natural Hazards textbook
- Complete the flow chart below to explain exactly what happens at **Destructive** plate margins.
 Mention subduction, oceanic crust, continental crust, earthquakes and volcanoes in your flow chart.

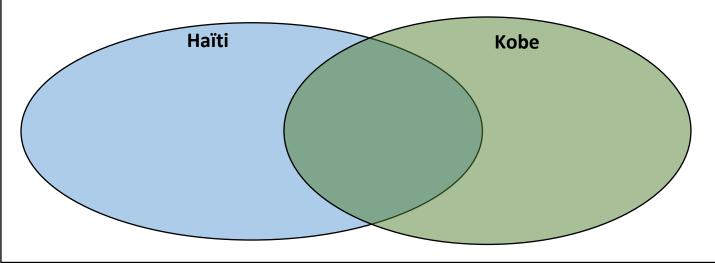
1						
2						
3						
4						
5						
<u></u>						
6						
6						
	e get earthquakes	but not volcar	noes at CONSE	RVATIVE plat	e margin	
	e get earthquakes	but not volcar	noes at CONSE	RVATIVE plat	e margin	
	e get earthquakes	but not volcar	noes at CONSE	RVATIVE plat	e margin	
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	e get earthquakes	but not volcar	noes at CONSE	RVATIVE plat	e margin	

1.05 Contrasting tectonic hazard case studies

- 1. Read pages 13 to 16 of the Challenge of Natural Hazards textbook
- 2. Complete the case study table to summarise the ESSENTIAL information about the Kobe and Haiti earthquakes;

		Kobe (HIC)	Haïti (LIC)
Background	l (where,		
when, size)			
Causes			
Effects	Short term		
	Long term		
Responses	Individuals		
	Agencies		
	Governments		

 Complete the Venn diagram below to compare the similarities and differences between the Haïti and Kobe earthquakes



1.06 Reasons why people continue to live in areas at risk from tectonic hazards and 1.07 How monitoring, prediction, protection and planning can reduce the risks from a tectonic hazard.

1. Re	ad pages	17 to	19 of the	Challenge	of Natural	Hazards	textbook
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2	Classify the reasons	people live close to vo	lcanoes into social	economic and	environmental fac	tors
∠.	Classify the reasons	people live close to vo	ncariocs into social	, cconomic and	CITYII OIIIIICIILAI TAC	LUI 3.

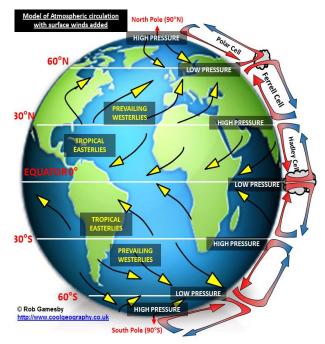
Social Reasons	Economic Reasons	Environmental Reasons

using evidenc	e from the 2 p	ages in the t	extbook		

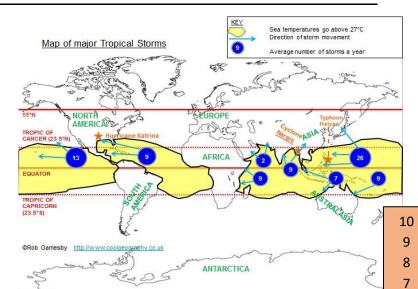
1.08 Global atmospheric circulation and

1.09 Tropical storms – what, where and why.

- Read pages 20 to 22 of the Challenge of Natural Hazards textbook 1.
- 2. Describing how air moves within the Hadley cell as shown opposite___



- Using the model explain why the UK often gets wet and windy weather_____ 3.
- 4. Describe where tropical storms can be found using the map opposite.



6 5

Why don't we get tropical storms in the UK? 5.

1.10 How climate change might affect the distribution, frequency and intensity of tropical storms.

1. Read page 23 of the Challenge of Natural Hazards textbook

SKILLS EXERCISE

<u>Hypothesis</u>: Hurricanes in the North Atlantic pose more of a risk between 1950 to 2008 than from 1880 to 1949

2. Calculate the mean and range for data opposite. Put the figures in the empty cells in the table.

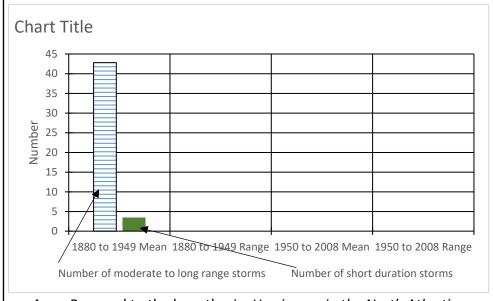
Help Box

Measures of central tendency

<u>Mean</u> – add all of the values in the column together and divide by the number of results, in the case 14 for the top table and 12 for the lower table

Range – subtract the smallest value from the largest value.

3. Complete the simple bar graph to show the mean and the range for both time periods.



4. Respond to the hypothesis: *Hurricanes in the North Atlantic pose more of a risk between 1950 to 2008 than from 1880 to 1949*. Is this true or false? Use data to support your answer_____

this true or false?	Use data to support your answer

Year	Number of moderate to long lived storms adjusted for missing storms	Number of short duration storms
1880-84	41	3
1885-89	64	2
1890-94	47	3
1895-99	43	3
1900-04	43	3
1905-09	45	1
1910-14	25	3
1915-19	42	1
1920-24	36	4
1925-29	30	3
1930-34	54	2
1935-39	39	7
1940-44	48	4
1945-49	44	9
MEAN		
RANGE		
1950-54	50	6
1955-59	37	13
1960-64	36	9
1965-69	37	12
1970-74	35	14
1975-79	33	13
1980-84	34	12
1985-89	36	11
1990-94	32	12
1995-99	54	12
2000-04	54	19
2005-08	47	22
MEAN		
RANGE		

1.11 A case study of a tropical storm Haiyan

- 1. Read pages 24 to 26 of the Challenge of Natural Hazards textbook
- 2. Look carefully at the data on the table below.
- 3. Calculate a percentage difference between the 2 countries in the column provided

Facts about the Philippines & UK (from CIA Fact book 2014)

Indicator	Philippines	UK	Difference (D) Philippines value – UK value	Average of 2 values (A) Philippines + UK values divided by 2	Percentage difference (D /A) X 100
Population	108 million	64 million	108-64 = 44	108+ 64 = 172 = 86 	(44/86) x 100 0.51X100 = 51%
GDP per capita PPP	\$4700	\$37,700			
People Living in Poverty (less than \$2 per day)	27% of the population	16.2%			
Life Expectancy	72 years	80.4years			
Literacy Rate	48.7%	99			
People Per Doctor	1.15 doctors per 1000 people	2.81 doctors per 1000 people			

1.	Using the data and the information in the textbook, why did the Philippines suffer so badly during
	Typhoon Haiyan?
	-
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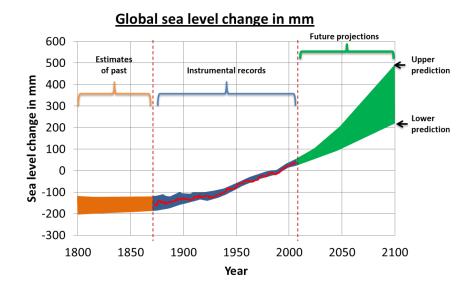
1.12 Types of weather hazard experienced in the UK – Depressions Read pages 27 to 29 of the Challenge of Natural Hazards textbook 1. List all of the extreme weather events that affect the UK that you can think of_____ 2. Explain fully how a depression forms. 3. Contrast a depression weather system with an anticyclone_____

			er is becoming more extreme in the UK and
L. Re	1.14 <u>Extre</u> Read pages 30 to 33 of t		event in the UK – St Jude storm of 2013
	Challenge of Natural Haz		Mean Central England Temperature Annual anomalies, 1772 to 5" Jun 2015
	extbook		3.0 2.5 – Values ABOVE
	ook carefully at the gra	nh helow	2.0 the line mean that year was WARMER than normal for
	What evidence does it provide for		(5) 1.0 - Central England
	•		normal for Central England 1.0 5.0 0.5 0.0 0.0 0.0 Values BELOW the line mean that year was that year was
	weather in the UK becoming		Values BELOW the line mean that year was
more extreme? Quote figures from the graph in your response.		_	-2.0 - COLDER than normal for Central England
111	rom the graph in your h	esponse.	-3.0 Based on Parker et al. (1992) 1780 1800 1820 1840 1860 1880 1900 1920 1940 1960 1980 2000
			By Rob Gamesby http://www.coolgeography.co.uk
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	Praw then complete the	e case study t	table to summarise the ESSENTIAL information about this
	Oraw then complete the torm;	e case study t	table to summarise the ESSENTIAL information about this
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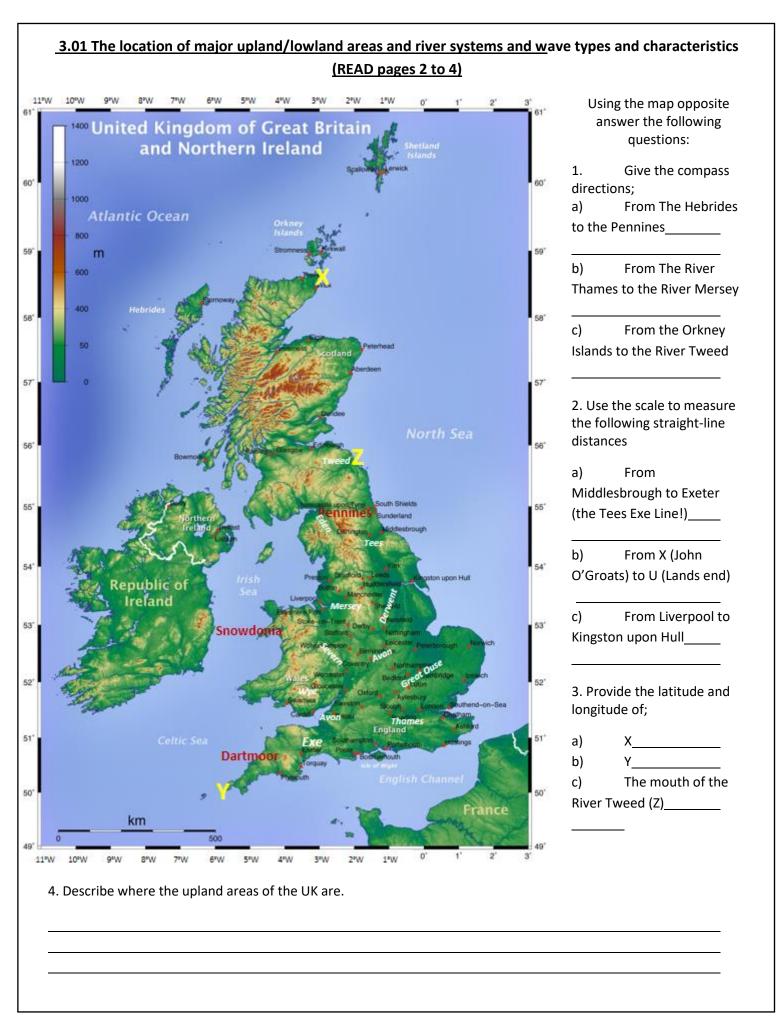
Distinguish between climate change and global warming		
	-	
Rank the causes of global warming in an order of		
mportance. Include both physical and human		
auses in the table opposite.	Factor	Rank
ustify your ranking in exercise 2	Physical: Volcanoes	
	Physical: Sunspots	
	Physical: Changes in	
	Earth's orbit	
	Human: Agriculture	
	Human Fassil Fuel use	
	Human: Fossil Fuel use	
	Human: Deforestation	
_		
Does the evidence suggest that humans or nature i	is to blame for our changing	climate? Justify
riew		

1.17 Managing the impacts of climate change: MITIGATION & ADAPTATION

Read pages 37 to 42 of the Challenge of Natural Hazards textbook



- Describe the changes in sea level predicted on the graph above. Ensure that you include data in your answer.
- 2. Read through all of the options to mitigate and adapt to climate change.
- 3. Produce a clear 4-point plan for the UK government on the KEY things we should do as a country to cope with climate change. Your plan should be in the form of a catchy poster.



3.02 Waves Read pages 2 to 4 first

1.	Explain why waves break
2.	Label the photograph with the key features of a wave – mention wave height, length, crest, trough



3. Complete the table below to contrast Constructive and Destructive waves

	Constructive	Destructive
Which is stronger, swash or backwash?		
Erosion or deposition ?		
Large or small wave height?		
Frequent or infrequent ?		
Is the gradient of the beach steep or gentle ?		

breakers

3.03 Coastal processes. (READ pages 5 to 6) Odd One Out

1. Hydraulic Power	2. Land slide	3. Abrasion	4. Rock Type	5. Long shore Drift
6. Backwash	7. Freeze Thaw	8. Attrition	9. Solution	10. Chemical
				Weathering
11. Acids	12. Biological	13. Constructive	14. Cracks in Rocks	15. Limestone
	Weathering	Waves		
16. Mass Movement	17. Destructive	18. Roots	19. Swash	20. Burrowing
	Waves			Animals
21. Soil Creep	22. Mechanical	23. Rotational	24. Slumping	25. Water
	Weathering	Slipping		
26. Low energy	27. Deposition			

Instructions

For each set

- 1. Write down the word that corresponds to the number.
- 2. State which word is the *odd one out*.
- 3. Give a reason why.
- 4. Now that you have started to see a pattern, add another word from the table, but keep the *same* odd one out.

Write down the word that corresponds to the number				Reason	Extra word to keep the odd one out the odd one out!
Set A	16	20	21		
Set B	11	3	9		
Set C	23	25	22		
Set D	13	18	20		
Set E	16	1	8		
Set F	22	7	10		
Set G	14	4	17		
Set H	6	17	19		
Set I	15	27	26		

Extension

1.	Try to put together your own group of words with an odd one out. You must have a good and obvious reason.	Swap your
	group of words with a partner and see if they can work yours out and vice versa.	

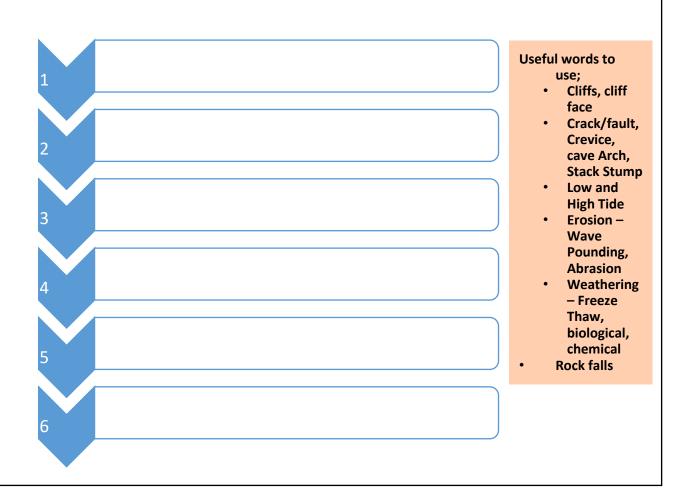
Now try and sort out all of the words in the table into 4 to 6 groups. Write a justification of your groupings.

3.04 Erosion Landforms – headlands and bays, cliffs and wave cut platforms, caves, arches and stacks. (READ pages 8 to 10)

1. Label the diagram below to describe the key features of this coastal environment



2. <u>Produce a sequence on how stumps are created, mention processes of weathering and erosion in your answer</u>



3.05 Deposition Landforms – beaches, sand dunes, spits and bars. (READ pages 11 to 12)

	(READ pages 11 to 12)		
1.	Complete the flow chart belo your answer.	w to explain FULLY how a SPIT is created. Mention	Longshore drift in
1			
2			
3			
4			
5			
6			
2.	Explain how a bar differs	s from a spit	
2			
3.	back (mature Dune)	egetation changes from the front of a sand dun	e system to the
Foredune		Mature Dune	

3.06 Different management strategies can be used to protect coastlines from the effects of physical processes.

Read pages 15 to 17

- 1. Define the terms below:
- Hard engineering
- Soft engineering
- 2. Annotate the photograph below to EXPLAIN how sand dune management can protect the coastline



3. Which do you prefer, hard or soft engineering? JUSTIFY fully your choice

3.07 The Holderness coastline - A case study of a coastal management scheme.

(READ pages 18 to 19)

Complete the case study table below

Background to Holderness (where, when, why)		
Causes of cliff	collanco	
Causes of cliff collapse		
Effects	Environment	
	People and	
	economy	
Responses	Individuals	
and management		
	Agencies	
	Agencies	
	Governments	

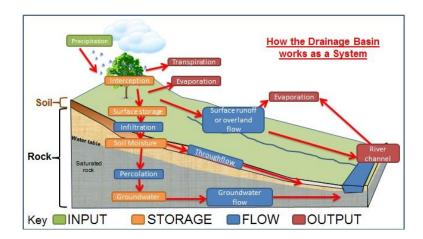
3.08 The shape of river valleys changes as rivers flow downstream.

A)	(REWhat is the difference between abrasion and	AD pages 20 to 21) attrition?	
,			
В)	A) Sediments in Northumberland Compare the sediment (stones) in photograph		Silt found in Idaho, USA s size and shape
C)	Which part of the LONG Profile of a river do yo		phs are situated?
	Photograph A	Photograph B	
	Upper Course		Upper Course
	Middle course		Middle course
	Lower Course		Lower Course
D)	Complete the odd one out in the sets below in	n your book and give a r	eason why:
	Set 1 - Hydraulic action	Traction	Abrasion
REASO	N:		
	Set 2 - Low river velocities	Suspension	Saltation
REASO	N:		
	Set 3 - Deposition	Mountainous area	as Erosion
REASO	N:		
	Set 4 - Solution	Saltation	Corrosion

REASON:___

3.09 The long profile and changing cross profile of a river and its valley. (READ pages 22 to 24)

1. Define 4 of the key terms around the drainage basin systems diagram



۷.	Explain what would happen to the features of the drainage basin system shown above if an area was
	deforested (and hence interception removed)

3. Draw a picture to show what happens to the shape of river valleys as you move from the source to the mouth of a river.

3.10 River erosion landforms – interlocking spurs, waterfalls and gorges. (READ pages 24 to 25)

1. Produce a labelled sketch to show all of the features of the V shaped valley with its interlocking spurs shown in the photograph.



<u>SKETCH</u>

Bob Bowyer via Wikimedia Commons

2. Produce and complete the flow chart below to explain FULLY how a GORGE is created. Mention erosion processes, rock resistances, Plunge pools and rock types in your answer.

1

2

3

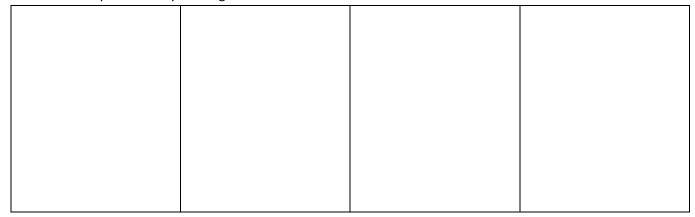
4

3. On the High Force in Teesdale image below add full labels—labels to add — Whin Sill (harder rock), Limestone (softer rock), Sandstone (baked hard by Whin Sill), Plunge pool, Waterfall, Gorge sides, Bedding planes.



3.11 Erosion and deposition Landforms – meanders and ox-bow lakes, levées, flood plains and estuaries.
READ pages 29 to 30)

1. Draw a sequence of diagrams to EXPLAIN the development of Ox bow lakes mention processes of erosion and deposition on your diagrams



2. Annotate fully the photograph below to DESCRIBE the key river features



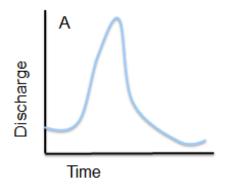
By Oliver Kurmis

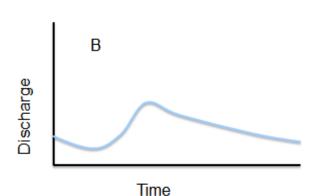
3. Produce a flow chart explaining how estuaries are created



3.14 Hydrographs. (READ pages 32 to 33)

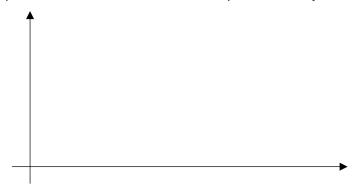
- 1. Define the term discharge_____
- 2. Explain why discharge can vary over the course of a year in the UK.
- 3. Look at the images below and complete the table





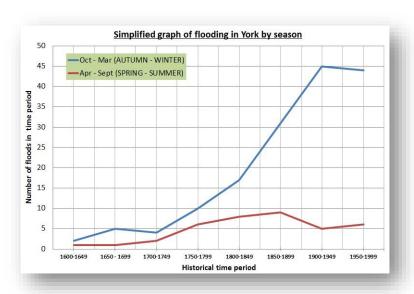
Which of the 2 hydrographs is most likely to:	Α	В	REASON
Flood			
Have thick deciduous vegetation			
Be in an Urban area			
Have flood defences along the river			
Have permeable soils			
Have had a prolonged period of rainfall prior to this event			
Have a LOW water table			

Draw a **simple annotated sketch hydrograph** for a river close to saturated fields. Assume that the valley is steep sided, the soils are permeable and that 24 hours of heavy rainfall have just fallen.



3.15 Factors that increase the flood risk. (READ pages 34 to 35)

Describe the patterns on the graph below – be sure to QUOTE DATA in your response



2. Produce a mind map of all of the factors that can affect discharge below

3.16 Flood management for rivers - Hard and soft engineering management strategies **READ Pages 36 to 37** JUDGE which strategies to manage river processes and flooding (hard or soft engineering) are most effective and

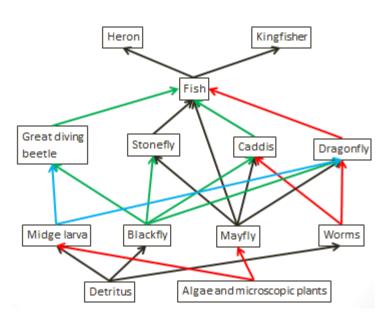
3.18 Morpeth - A case study of a flood management scheme in the UK. (READ pages 38 to 40)

Complete the case study table below to summarise the ESSENTIAL infor	mation abo	out this	flood:
--	------------	----------	--------

Background	(where, when,	
size)		
Causes		
Causes		
	Т.	
Effects	Short term	
	Long term	
Responses	Short term	
Responses	Short term	
	Long Term	
[1	

1. Draw a simple food web for your back garden or a local park.

2. What would happen to the pond ecosystem if the great diving Beatles was wiped out?

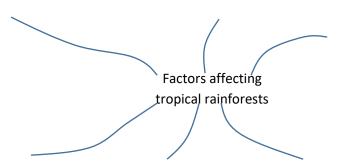


3. Should we protect native British species against invasive species? Justify your view.

Tropical Rainforest Tropical Savannah Desert	A/lacala a a constitu		ution of Ecosysten			
Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean)	Vhich ecosystem	would you most like to	o visit and why?			
Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean)						
Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean)						
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Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean)						
Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Slain why temperate deciduous forests are found where they are.	scribe the distrib	ution of temperate dec	ciduous forests usir	ng the map be	elow	
Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean) Tropical Savannah Desert Tropical Savannah Desert Chaparral (Mediterranean) Tropical Rainforest Tropical Savannah Desert Tropical Savannah D	TIC CIRCLE					
Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean) Tropical Savannah Desert Tropical Savannah Desert Chaparral (Mediterranean) Tropical Rainforest Tropical Savannah Desert Tropical Savannah D	2		2	35		
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Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Chaparral (Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean) Tropical Savannah Desert Chaparral (Mediterranean) Temperate Deciduous Forest Temperate Boreal Forest Arctic and Alpine Tundra Map of world ecosystems (biomes) (biomes)	NATOR .	75				
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Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Tropical Rainforest Tropical Savannah Desert Chaparral (Mediterranean) Arctic and Alpine Tundra Map of world ecosystems (biomes) (biomes)				•		
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Chaparral (Mediterranean) Arctic and Alpine Tundra Plain why temperate deciduous forests are found where they are.		Temperate Deciduous	s Forest <u>ecc</u>	<u>osystems</u>		
			7.	<u>oiomes)</u>		
	olain why temper	rate deciduous forests (are found where th	nev are.		
	, topo.			<u></u>		
		-				

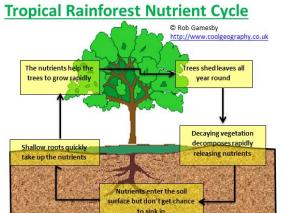
2.3 - Tropical Rainforest Characteristics (READ pages 7 to 11)

1. Make a mind map of all 6 of the factors that affect tropical forests



1. What would happen to the nutrient cycle if tropical trees

are cut down?_____



2. Rank the six factors that affect tropical forests in an order of importance from 1 to 6. Justify your ranking.

I have placed______ first because_____

I have placed_____last because_____

Factor	Rank
Climate	
Soils and	
nutrients	
Water	
Cycling	
Adaptions	
of plants	
and animals	
Competition	
People	

2.4 - Impacts of deforestation (READ page 12)

1. List as many environmental and economic impacts of tropical rainforest clearance as possible

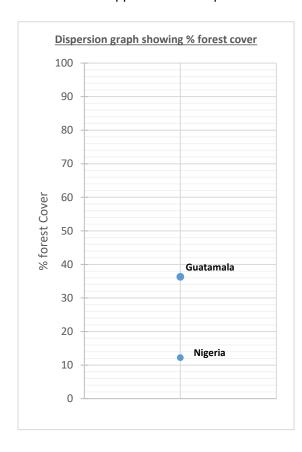
Economic	Environmental

2. Annotate the photograph to show the features of and the damage done by, slash and burn agriculture



2.5 - Rates of deforestation (READ page 13)

- 1. Study the data in the table opposite
- Identify the country with the greatest loss in forest cover
 between 1990 and 2005.
- 3. Which country had the least forest cover in 2005?_____
- 4. Which country had the most forest cover in 2005?_____
- 5. What is the range for % forest cover in 2005? (subtract the smallest value from the largest value)_____
- 6. Calculate the mean, mode and median for the data shown. Add these to the table.
- 7. Draw a dispersion graph of the % forest cover data using the template provided below.
- 8. Add on the upper and lower quartiles



Country	% forest cover 2005	% change 1990 to 2005
Bolivia	54	-7
Brazil	57	-8
Brunei	53	-11
Cambodia	59	-19
Colombia	59	-1
Congo	66	-1
Guatemala	36	-17
Indonesia	49	-24
Madagascar	22	-6
Nigeria	12	-36
Panama	58	-2
Papua New Guinea	65	-7
Peru	54	-2
Senegal	45	-7
Sri Lanka	30	-18
Mean		
Mode		
Median		

Help Box

Measures of central tendency

<u>Mode</u> - Mode is the value that appears the most times

<u>Mean</u> – add all of the values in the column together and divide by the number of results, in the case 15

<u>Median</u> – rank the results in order from smallest to biggest. The median is the middle value on the list. In this case the 8th result in your list.

Inter Quartile Range

Upper quartile (UQ) = Number of results $(15)+1/4 \times 3$

Lower quartile (LQ)= number of results (15) +1 /4

IQR = Upper Quartile – Lower Quartile

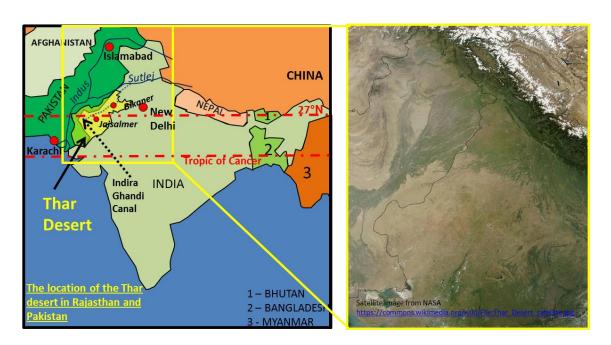
•	Define the term deforestation
•	Should countries develop and deforest parts of the Tropical rainforests? Discuss with reference to a case
	study you have studied (9 Marks + 3 SPGST)

2.7 – Sustainable rainforest management (READ pages 17 to 18)
Design a poster aimed at helping people understand to understand deforestation and what can be done to help save the tropical rainforest. Include factual evidence, pictures and diagrams in your poster.

			2.8 – Dese	rt Chara	ctorio	ticc	/DI	- A D	nag	oc 10	0 +0	20)						
				Cliara	icteris	SUCS	- (KI	EAU	pag	62 T	9 10	<u> 20)</u>						
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		gra	aph for Jaisalmer		A C.	····ac	c gr	-	Raja						D C.	,		
3)	What is the	lov	vest temperature in	40					Naje	Stric	59	luia					70	
	Jaisalmer?			35	+				/-	-		53	40				60	
				∵ 30				X					49				50	Έ
o)	What is the	hig	shest temperature in	و 25			/							1			40	Ē
	Jaisalmer?			at 20			/								X		40	atio
c)			the range of temperatures	Temperature (°C) 25 25 15 10					 1 5	23		· -				×-	30	Precipitation(mm)
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2.10 - Thar desert case study - (READ pages 22 to 24)

1.	Describe the location of the Thar Desert



2.	Explain why the Thar desert is a difficult place to live

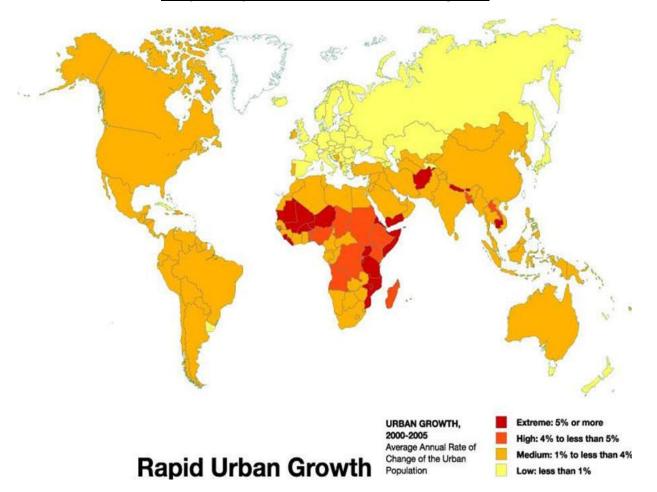
3. Produce a table on the ways in which the Thar desert is used;

Land use	Description	Positives	Negatives

1.	Describe the location of the Sahel The Sahelis the region at greatest risk of describing long 15km wide belt of vegetation and trees designed to stop the spread of the desert
2.	Explain how the process of desertification works S = Senegal E = Eritrea © Rob Gamesby http://www.coolgeography.co.uk
_	
3.	What impact does desertification have on people and the environment?
	People Environment
4.	Explain how you could stop the process of desertification

4.1 Global patterns of urban change and Factors affecting the rate of urbanisation and the emergence of megacities. (READ pages 2 to 3)

Study the map below on rates of Urbanisation growth



1 Use the map and key to complete the table below:

Continental area	South America	North America	Western Europe	Sub Saharan Africa	South East Asia
Average Rate of					
growth					

2	Which types	of na	ations,	, LICs,	NEEs o	r HICs	, is ı	urba	nisat	ion	happe	ening	fastest	?
		_												_

3 Which types of nations, LICs, NEEs or HICs, is urbanisation happening slowest? ______

4	Explain the patterns on the map. Ensure that you include one area of low growth and one area of high/extreme growth.	e

	Using page 8 define th	ne following terms:		
	Migration –			
)	Push Factor -			
•	Pull Factor			
•	Natural Increase –			
2.	How do migration and	I natural increase affect the populat	ion size of cities?	
.	Use the information of	on pages 9 and 10 to rank the factor	s about how Mumbai has gr	own into an o
	importance . Give reas	ons for your ranking		
			Rank out of	
			6	
		Location in West of India		
		Shipping routes		
		Location as a port		
		Entertainment and fashion		
		industries		
		Foreign companies		
		Location of Indian Banks		

4.2.1 and 4.2.2 Causes of growth in Mumbai: natural increase and migration (READ pages 2 to 4)

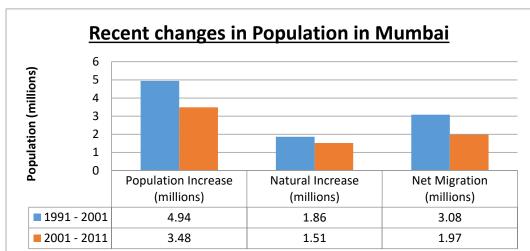
Look at table 4.4.2 – Contrasts between Mumbai and Maharashtra state

	Maharashtra State	Mumbai
GDP per head (US \$)	1,660	2,845
Life expectancy	68.4	52.6 (men) and 58.1 (women)
Infant Mortality	28	26
Literacy rate	82.9%	90.81%
Birth rate	17.6	20.1
Death rate	6.7	6.0

1.	What factors would attract migrants to Mumbai and why?

2.	Which factors might stop or deter people from moving?

3. Study the graph below on causes of urban growth in Mumbai



	2001 - 2011	3.48	1.51	1.97	
4.	Describe the pat	tterns on the graph			

5.	Which factor is most important in the growth of Mumbai?
•	

6.	What has happened to the growth of Mumbai over time?	

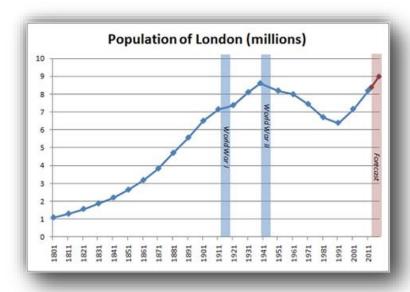
4.3.3 Opportunities of living in Mumbai: Social AND economic (READ pages 10 to 11)
Produce a mind map that summarises all of the reasons why people would want to live in Mumbai;
į.
Social Controlling Social Contro
300
Why do people want to live in Mumbai?
live in Mumbai:
$o_{D_{O_{C_{r_{\cdot}}}}}$
opportunities

4.3.4 Challenges in Mumbai: Social, economic AND environmental (READ pages 12 to 13)

Complete the Case Study Crib Sheet below to cover all of the c	challenges facing Mumbai;
Case study name –	
Introduction & Location – Write a short sentence about what	Key facts to remember (include at least 4 – dates,
the case study is about and WHERE it is	names of places, figures etc.)
Sketch map	
Key Geography Terminology associated with case study	
What the case study is about in 5 sentences	
1.	
2.	
3.	
4.	
5.	
A Question I could be asked: Common Command words to help – Describe, Compare, Contrast, I	Explain, Suggest why
Mumbai a city of hope or despair?	

4.3.5 An example of how urban planning is improving the quality of life for the urban poor. (READ pages 15 to 16)			
<u>101</u>			
Which do you prefer, the high rise tower blocks proposed by the Slum Rehabilitation Authority or Local based			
improvements suggested by SPARC? Justify your answer.			

4.4.1 The location and importance of London in the UK and the wider world (READ pages 18 to 19)

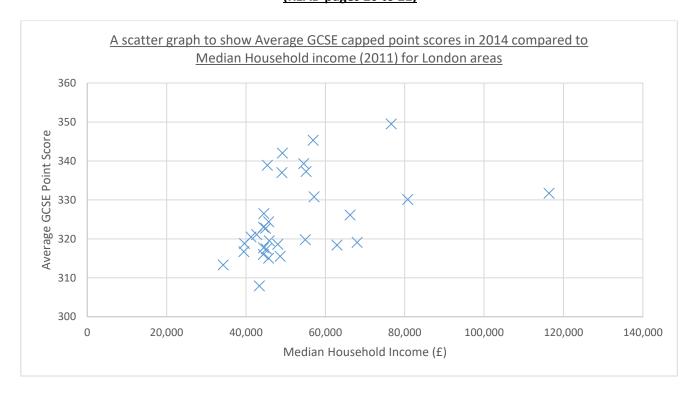


1. Describe what has happened to the population using the graph above. Use figures in your answer.

2. Using the fact file select 5 facts that prove the London is influential within the UK and 5 facts that show it is influential world wide

London is influential within the UK because	London is influential worldwide because
	London is influential within the UK because

4.4.2 Geographic skills and Impacts of national and international migration on the growth and character of the city (READ pages 20 to 21)



1. Locate the following 2 points onto the graph

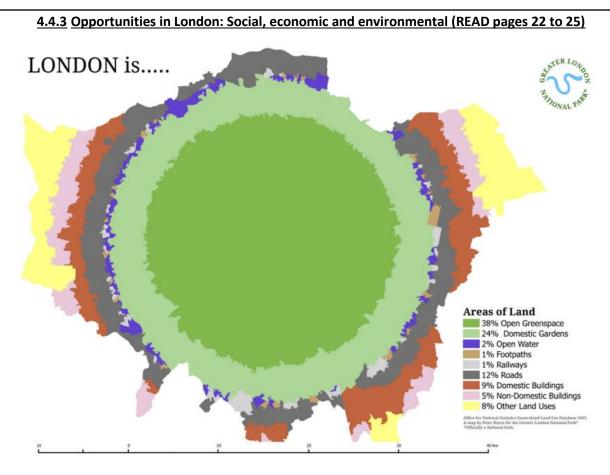
Area	Median Household Income	Average GCSE Point Score
Barking and Dagenham	34,080	307
City of London	63,620	355

- 2. Add a line of best fit to the graph above
- 3. Hypothesis: Students in wealthier areas of London perform better in their GCSE examinations.
- 4. Respond to the hypothesis above using evidence from the graph

Calculating % Change

5. Calculate the % change for the statistics below from the 2001 and 2011 census for London

	Population - 2015	Ethnicity - % White	Religion - % Christian
2001	7,172,091	71	58
2011	8,632,850	60	48
2011- 2001 (increase or decrease)			
% change = Increase or decrease ÷ Original Number (2001) × 100			



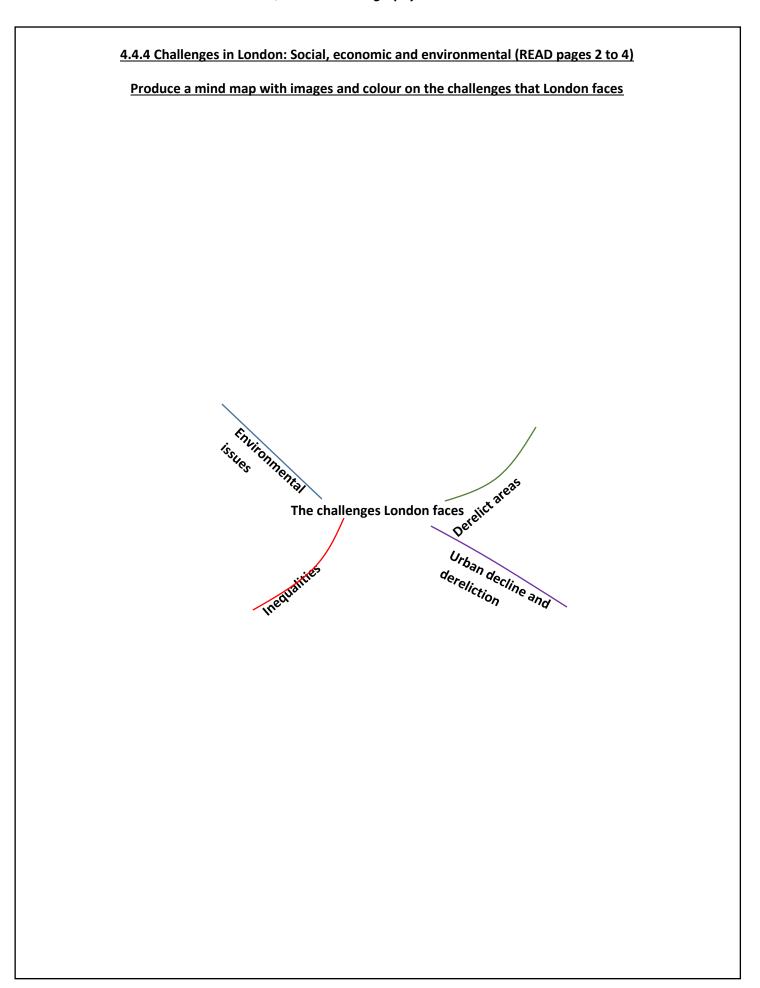
http://londontopia.net/londonism/london-maps-intriguing-map-london-shows-just-much-green-space-amount-will-surprise/

Total Percentage of BUILT environments in London

Look at the map above and use it to complete the table below;

Total percentage of green areas in London

does the amount of green space compare to the amount of built environments? Is this surprising? hy do people live in London? Include as many opportunities in your answer as possible
hy do people live in London? Include as many opportunities in your answer as possible

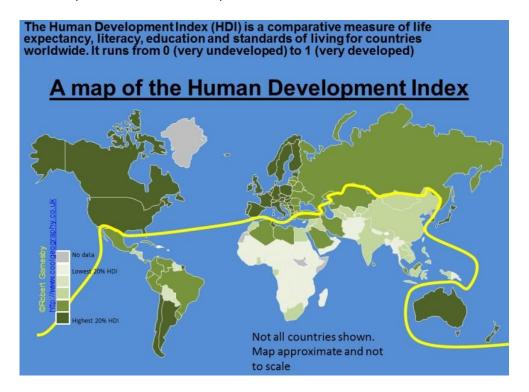


4.4.5 (READ pages 2 to 4)			
The London Olympics was a success in regenerating East London. Discuss. (9 marks)			
<u> </u>			

<u>5.1</u>

Read pages 2 & 3

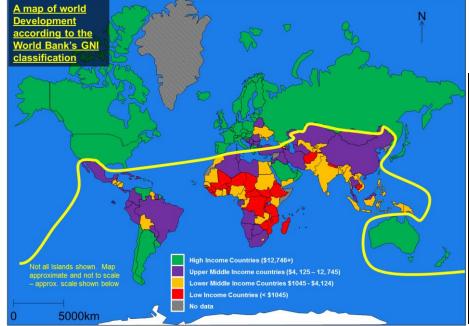
1. Annotate the map below to describe the patterns of HDI



2.	Pick your top 3 measures for showing the development of a place (e.g. Life expectancy, GNI, HDI, Infant
	mortality, education, Literacy rate, Happy planet index etc.)

ustify your ranking – '	why are these the best	: indicators?	

5.2 Read pages 4 to 5



1. Using an Atlas and the GNI map below complete the table below;

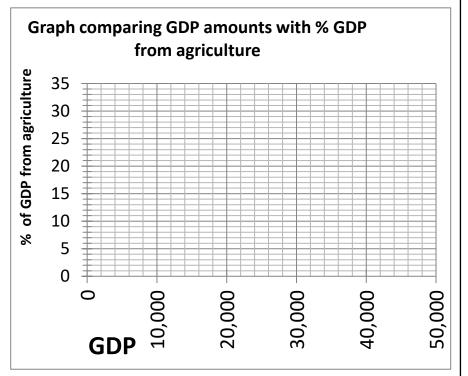
below comp	below complete the table below,						
Country	GNI on map	North or South of the Brandt Line?					
UK							
South Africa							
Madagascar							
Brazil							
USA							
Ukraine							

2.	According to the data in the table above, which countries are correctly classified as North or South?
3.	According to the data in the table above, which countries are INcorrectly classified as North or South?
4.	What does this information reveal about the VALIDITY (how accurate it is) of the North South Divide line from 1971?
5.	Which method of classifying countries do you prefer (First, second and third world method; North-South divide; HIC-LIC; or 5 fold division of wealth) and WHY?

<u>5.2b</u>

Hypothesis: As GDP Increases the % GDP from Agriculture Decreases

	GDP US\$ per	% GDP from
Country	Capita	agriculture
Japan	34,000	3.9
USA	47,200	1.2
Italy	30,500	1.8
UK	34,800	0.9
Kuwait	48,900	0.3
Mexico	13,900	4.2
Malaysia	14,700	9.1
Brazil	10,800	6.1
Egypt	6,200	13.5
India	3,500	16.1
Kenya	1,600	22
Bangladesh	1,700	18.4
Burkina Faso	1,200	30.1



1. Plot the points above as a scatter graph

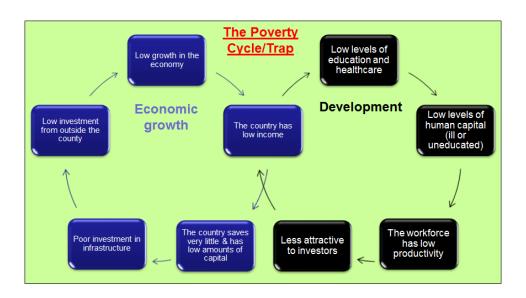
on the paper provided. Remember to add a line of best fit.

- 3. Is the Hypothesis "As GDP Increases the % of GDP from Agriculture Decreases" true or false.

Give reasons for your answer.___

<u>5.3</u>

Read pages 9 and 10



- 1. Add to the diagram above at least 4 ways that you could break the cycle of poverty.
- 2. How do PHYSICAL factors affect the level of development of your country?

3. Explain how world trade is UNFAIR on LICs, the world's poorest countries

<u>5.5</u>

Read pages 12 to 14

 Describe the patterns on the map of inequality opposite. The higher the figure shown, the greater the inequality between rich and poor in the country. Patterns of inequality across the globe

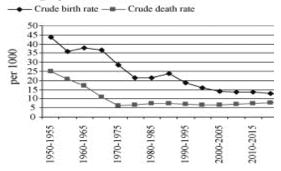
No data

Out which indicularity

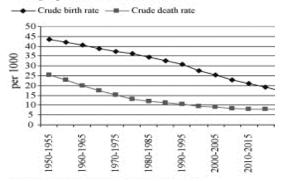
Out all followed shows: Map approximate and control to scale – approx. scale shows below http://www.coolgeography.co.uk

- 2. Use the graphs opposite to answer the questions below;
- a) What stage of the demographic transition model was INDIA in in 1950-55?
- b) What stage of the demographic transition model was CHINA in in 1960-65?
- c) What stage of the demographic transition model was INDIA in in 2010-2015?
- 3. Draw an annotated population pyramid to show the stage of the demographic transition model China had reached by 2010.

Demographic Transition in China



Demographic Transition in India



<u>5.6</u>

Read pages 16 to 18

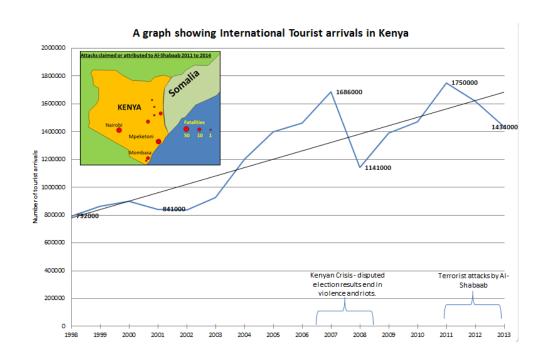
Complete the table below to assess the impacts of the various ways to help countries out of poverty. Remember that impacts can be positive and negative.

	Socially	Economically	Environmentally
		£	
Trade			
Fair Trade			
Investment			
Loans			

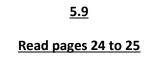
<u>5.7</u>

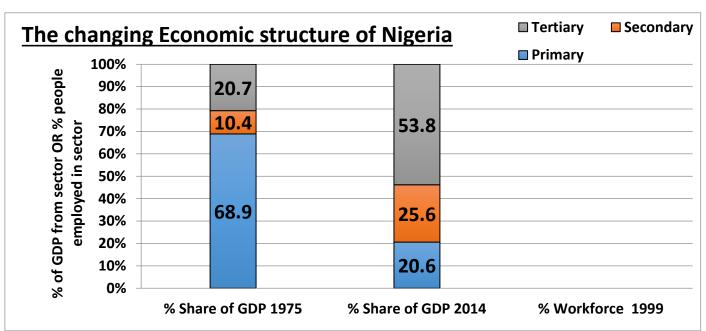
Read pages 20 and 21

1.	Describe the changes in the number of tourists arriving in Kenya over time. Use data in your response



2. Is tourism a good industry for Kenya to use to bridge the development gap? Use the table on page 21 Evaluate the impact of tourism on Kenya.





3. COMPLETE the graph above by making a stacked column for % workforce in 1999 using the data below;

Primary	70
Secondary	10
Tertiary	20

4.	Using the graph what has happened to primary, secondary and tertiary % share of GDP OVER TIME?
Prir	nary:

Secondary:_____

Tertiary:_____

- 5. CONTRAST the % share of GDP with the % workforce in each sector in 1999.
- 6. Should Nigeria be more developed than it currently is?

Suggested structure

Introduction – basic facts about

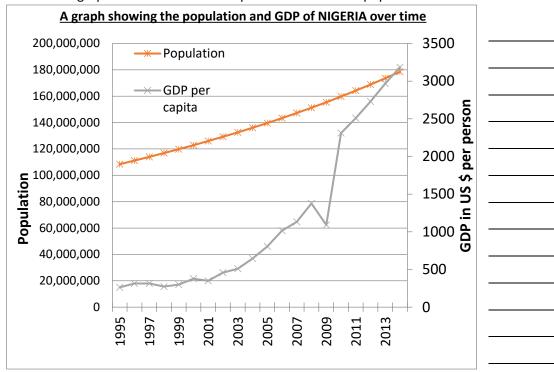
<u>5.10</u>

Read pages 27 and 28

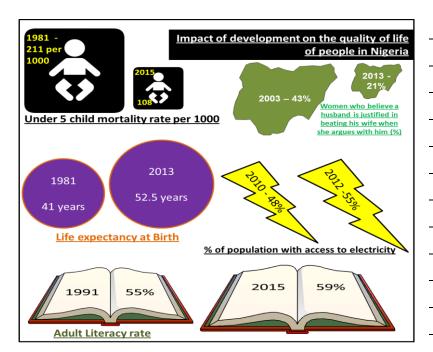
Is Shell a positive force In Nigeria? Discuss this with reference to both	Shell in Nigeria
sides of the argument	
	Paragraph 1- positives of Shell's
	work in Nigeria
<u> </u>	
	Paragraph 2— negatives of Shell's
	work in Nigeria
	Conclusion –Your opinion and wh
	you hold that view
	_

5.12 Read page 31

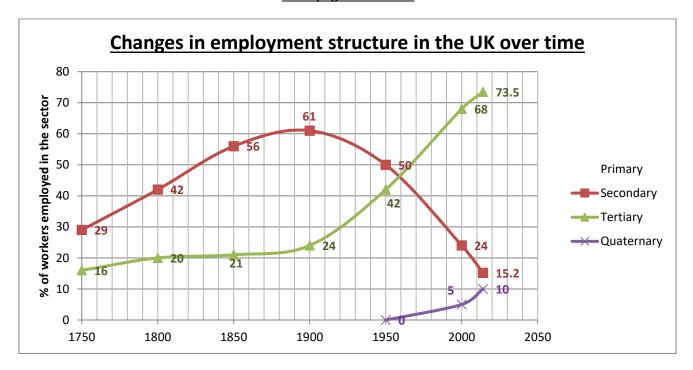
Look at the graph below. Describe the patterns in GDP and population over time



Look at the infographic; has quality of life for Nigerians improved? Use data to support your response



5.13 Read pages 33 and 34



1. Use the data below to complete the graph above by adding a line showing the change in the % of people working in Primary industries

	1750	1800	1850	1900	1950	2000	2014
Primary	55	38	23	15	8	3	1.3

2.	Describe	e the change	in UK em	oloyment	structure over t	time

3. Which employment area (P,S,T or Q) would you and your friends like to work in? What is your/their dream job? Why? What does this mean for the UK?

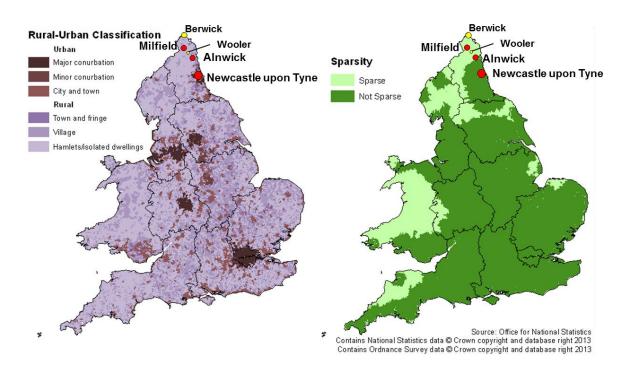
<u>5.14</u>

Read pages 35 and 36	
Produce a revision mind map on how Industry can affect the environment, consider the land, air and water on your	
mind map.	
Read through the information about Teesside on pages 35 and 36. Look also at page 38. What is the future for heavy industry areas like Teesside in the UK? How can they adapt to the new economy of the UK?	

<u>5.16</u>

Read pages 39 to 41

Look at the maps below, where do Milfield and Alnwick fit in terms of the Rural-Urban classification and Sparsity?



	Rural-Urban classification	Sparsity
Alnwick		
Milfield		

What problems does Milfield face in the long term?
How would you manage those problems?

<u>5.17</u>

Read pages 42 to 43	
1. Define the term "Infrastructure"	
2. List some major Infrastructure links in your local area	
3. Complete the Venn diagram about the HS2 project ECONOMIC	

ENVIRONMENTAL SOCIAL

4. In your view should HS2 be going ahead? JUSTIFY (give reasons for) your view

5.18

Look at the graphic below. Is enough being done to make the Northern Powerhouse a reality? You might want to research this on the internet to get extra ideas for your response

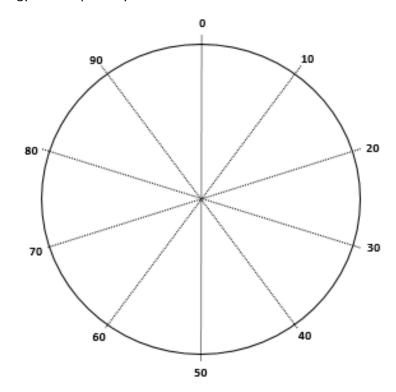
research this on the internet to get extra ideas for your response. **Government Northern Private Sector investments planned** Powerhouse investments: and underway: £235 million Sir Henry Royce Institute for £310 million wind turbine technology from Siemens and advanced materials research, Associated British Ports based in Manchester, with centres in Leeds, Liverpool £450 million Logistics and Marine Energy Park from Able UK and Sheffield £350 million bio fuel refineries from Vivergo Fuels £113 million Liverpool City Region Cognitive Computing Research £350 million Liverpool2 deep-sea container port from Peel Ports Centre in Warrington £920 million City Centre retail from Grosvenor Group £78 million Greater Manchester The Factory Manchester, a new £800 million Airport City Enterprise Zone theatre and exhibition space £1 billion East Manchester housing programme from £20 million Abu Dhabi United Group Innovation Hub for Ageing Science in Newcastle North East £150 million in Newcastle's marine and offshore sector **New National** £82 million train construction facility from Hitachi College for Onshore Oil and Gas in Blackpool. Leeds City Region with centres at Chester, Redcar £150 million Victoria Gate Leeds city centre and Cleveland £260 million Broadway Bradford city centre **Doubling** the number of **Sheffield City Region** northern cities to benefit from the Government's superfast broadband £400 million Peak Resort, Sheffield city centre programme £400 million intermodal freight interchange in Doncaster from Veridon. Source: HM Treasury, Transport for the North and publically available sources.

6.01 The significance of food, water and energy to economic and social well-being.

Read pages 2 and 3

1. Draw a pie chart to show the world energy consumption by source

	Percentage
Oil	33
Coal	29
Gas	24
Nuclear	4
Hydro	7
Wind	1.5
Solar	0.5
Other renewables	1



Source of data -

https://www.worldenergy.org/wp-content/uploads/2016/10/World-Energy-Resources-Full-report-2016.10.03.pdf

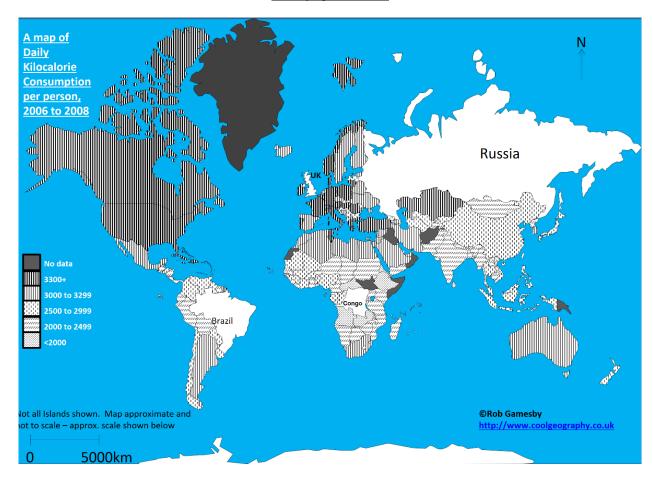
2.	How SUSTAINABLE is this pattern of energy consumption?

3. Complete the table below on how essential and desirable these resources are for human life

	Ways in which it is essential to human life	Ways in which it is desirable
Food		
Water		
Energy		

6.02 An overview of global inequalities in the supply and consumption of resources.

Read pages 4 and 5



1. Add the following data to the map above

	Kilocalorie consumption per person
UK	3450
Russia	3320
Democratic Republic of Congo	1590
Brazil	3120

2.	What inequalities exist in the kilocalorie intake of people across the globe?
3.	What impacts could this have on people's well-being?
4.	Why do some countries use more energy than others do?

6.03 The growing demand for high-value food exports from low-income countries and all-year demand for seasonal food and organic produce

Read pages 6 and 7

1. Define the term high value food export____

2.	Anno	otate the p	icture of Chive fa	rming in Kenya to hi	ghlight its	key features	
		c	ource bttp://www.bortid	silv com/article /2/2009 (Konya co	nallholder farm		chives
3.		plete the t	able below to ass		enya (a LIC	ers-take-on-export-market-with-	ne UK. Use SEEP (Social,
		Positives			Negati	ves	
Kenya							
UK							
4.	Why	is organic	produce more ex	pensive than non-o	ganic pro	duce?	
5.	Calcu	ulate the %	change in organ	ic food sales in the U	JK in the t	able below	
			2000	2015		Change (2015 – 2000)	% Change (Change/2000 figure X 100)
Value millior		es in	802	1954			

6.04 Carbon footprints, 'food miles' travelled, local sourcing of food and the trend towards agribusiness.

Read pages 8 to 9

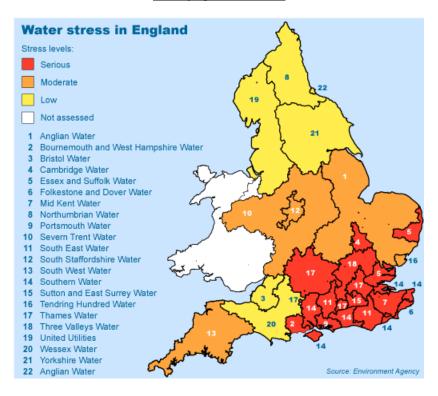
1. Look in your fridge and food cupboards, complete the table below. Use the website http://www.foodmiles.com/food/uk to calculate the distance travelled

Food item	Country of origin	Miles travelled

2.	How sustainable is your diet in terms of carbon footprints and food miles?
	,
3.	How could you make your food consumption more sustainable?

6.05 The changing demand for water and matching supply with demand

Read pages 10 and 11



Water stress occurs when the demand for **water** exceeds the available amount during a certain period or when poor quality restricts its use.

	Annotate the map to describe the pattern of water stress shown
2.	Explain why the South East of England has the worst levels of water stress

3. Brainstorm all of the ways that your house uses water

6.07 The changing energy mix – reliance on fossil fuels, growing significance of renewables & 6.08 Reduced domestic supplies of coal, gas and oil

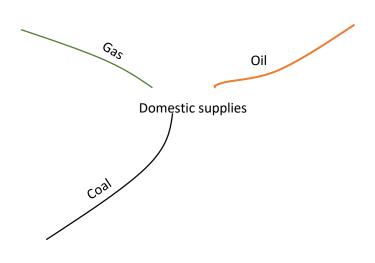
Read pages 14 &15

1. Complete the table below

	UK energy mix in 2015 %	Proposed government energy mix by 2020	Change (2020 -2015)	% change (Change/2000 figure X 100)
Coal	31	26		
Gas	25	21		
Nuclear	19	8		
Renewable	22	39		
Other	3	5		

2.	Describe the changes shown in the table

3. Produce a mind map on why domestic supplies of coal, oil and gas are reduced



6.09 Economic and environmental issues associated with exploitation of energy sources.

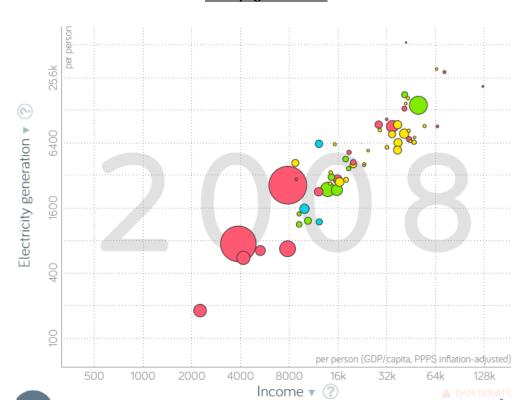
Read pages 16 and 17

"A key part of our long-term economic plan to secure Britain's future is to back businesses with better infrastructure. That's why we're going all out for shale gas (fracking). It will mean more jobs and opportunities for people, and economic security for our country." David Cameron 2014

Discuss the extent to which you agree with Mr Cameron on using Fracking of	Plan:
Shale gas as part of our energy mix in the UK	-
	are Fracking and
	the UK energy mix?
	Paragraph 1 – what
	- are the advantages
	of Shale gas and
	other fossil fuels?
	Paragraph 2 – what
	are the pros and
	– cons of the
	alternatives –
	renewable energy
	Conclusion – what
	do you think?
	_
	_
	_

6.10 Energy resources – supply and demand and 6.11 Reasons for increasing energy consumption:

Read pages 18 to 21



1. Add the following data to the map with a cross

Country	GDP	Electricity
		Generation
Uzbekistan	3730	1770
Kuwait	92K	20K
Portugal	27.7K	4300

2. Add a line of best fit to the graph.

3.	Hypothesis: As GDP goes up electricity generation goes up Respond to this hypothesis using evidence from the graph
4.	Outline 2 reasons why energy consumption is going up

6.12 Factors affecting energy availability

Read pages 22 to 24

In the table rank the factors that affect energy supply from 1 (most important) to 6 (least Important). The 6 factors to add to the table are: Geology, climate, environmental conditions, technology, cost of exploitation and government decisions (political factors)

Most Important Factor	1	
	2	
	3	
•	4	
	5	
Least Important Factor	6	

Justify (give full reasons) your selection of the most important and least important factors below
Most important
Least important

6.13 Impacts of energy insecurity. Read pages 25 to 26



Source: http://priceofoil.org/2013/04/30/canadas-hollow-promises-on-tar-sands/

1.	Use the photograph above to describe the impacts of exploiting oil on the natural environment
2.	Research one example of how energy insecurity has led to social unrest or conflict
3.	Record your information source (book, website name etc.)

6.14 Overview of strategies to increase energy supply Read pages 27 to 28

1. Complete the table below by classifying the strategies in the book as either sustainable or unsustainable

Sustainable strategies to increase energy supply	Unsustainable strategies to increase energy supply
2. What damage does nuclear Power do to the en	vironment?
3. Why have some HICs avoided the use of sustain	nable energy sources to provide energy? Make a list of points
3. Why have some HICs avoided the use of sustain	nable energy sources to provide energy? Make a list of points
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6.15 The North Sea – An example of energy use Read pages 29 to 30

nomic and Environmental factors.	Plan:
	Introduce – what is
	the North sea Oil
	and Gas field?
	Paragraph 1 – what
	are the advantages
	of using the North
	Sea for Oil and Gas
	production?
	Paragraph 2 – what
	are the
	disadvantages?
	Conclusion – what
	do you think?

6.16 The potential for sustainable energy supplies Read pages 31 to 33 Design an advertisement for a local paper for an energy firm that is attempting to be as sustainable as possible. You could mention energy conservation in the household and businesses, use of technology and renewable energy in your advert.