Year 11 Revision Booklet

Paper 2: Challenges in the Human Environment









- Urban issues and challenges Section A
- The changing economic world Section B
- The challenge of resource management Section C
 - All of question 3
 - Energy Question 6
 - **O IGNORE QUESTIONS 4 AND 5!**

Urban Issues and Challenges – Section A

A growing percentage of the world's population lives in urban areas			
What is urbanisation?			
Describe the changes to the urban population in devel	eloped (HIC) and developing (LIC)		
countries.			
	4000 Key		
	Developing countries		
	Developed countries		
	su e		
	iniile		
	Population (millions)		
	- Bobnit		
	1000 -		
	0		
	1950 1960 1970 1980 1990 2000 2010 20 Year	20	
	Figure 1 Urban population in developed and developing co	ntrie	
Why is urbanisation happening at a faster rate in LICs a	and a slower rate in HICs?		
Outline the factors below to explain how they affect the	the rate of urbanisation:		
Migration (push and pull factors):			
Migration (push and pull factors):			

What is a megacity?	
What is rural-urban migration?	



Describe the distribution of the world's megacities.

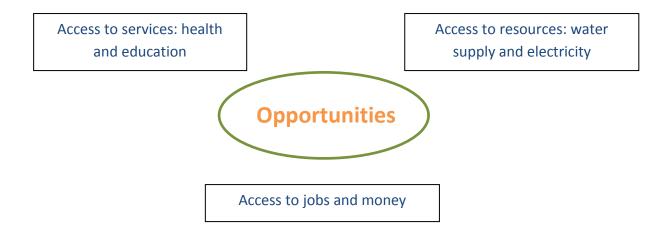
Urban growth creates opportunities and challenges for cities in LICs and NEEs

Case study of a major city in a NEE: Rio de Janeiro, Brazil

Complete the table to show why Rio de Janeiro is important regionally, nationally and internationally:

Regionally	Nationally	Internationally
Why is Rio a growing city? (Th	ink about natural increase and r	nigration).

Complete the mind map below to show the social and economic opportunities for people living in Rio:



What are the challenges created by urban growth in Rio? Complete the table with brief notes to show these challenges:

Squatter settlements	Clean water, sewage and electricity	Health and education	Unemployment and crime	Waste, pollution and traffic congestion

An example of how urban planning is improving the quality of life for the urban poor: Favela Bairro Project, Rio de Janeiro

List 5 improvements that were made by the Favela Bairro Project:

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What were the successes and failures of the Favela Bairro Project?

Successes	Failures

Urban change in cities in the UK leads to a variety of social, economic and environmental opportunities and challenges

People/km²	Describe the population distribution in the UK. Include
>150	names of cities and compass points in your answer.
• Major cities	Include most and least populated areas.
SCOTLAND	
· 35 / 3	
The state of the s	
NORTHERN IRELAND	
0 0	
and the same	
WALES	
London	
0 100 200	
km	A case study of a major city in the UK: Manchester
•	
	ne growth and character of the city? Think about what you influence might have come from, e.g. Chinatown.
find in Manchester and where the	influence might have come from, e.g. Chinatown.
find in Manchester and where the	influence might have come from, e.g. Chinatown.
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find in Manchester and where the	influence might have come from, e.g. Chinatown.

Outline the opportunities created by urban change in Manchester in the table below:

Cultural mix	Recreation and entertainment	Employment	Transport systems	Urban greening

Complete annotations below to explain the challenges created by urban change in Manchester.

Environmental dereliction, building on brownfield and greenfield sites, waste disposal Social and economic: deprivation, inequalities in housing, education, health and employment



Impact of urban sprawl on the rural-urban fringe and the growth of commuter settlements

An example of an urban regeneration project: Salford Quays	The state of the s
Why did the area need regeneration? Use the images to help you:	

Complete the table below to show the main features of the project:

Social improvements	Economic improvements	Environmental improvements

Urban sustainability requires management of resources and transport

vv	nat is the definition of 'sustainable urban living'?
••••	
Ide	entify 5 features of a sustainable city:
•	
•	
•	
Ch	oose 2 from your list above and explain how this characteristic makes a city sustainable:
Ch •	oose 2 from your list above and explain how this characteristic makes a city sustainable:
Ch	oose 2 from your list above and explain how this characteristic makes a city sustainable:
Ch	
Ch	
Ch •	
Ch	
Ch •	
Ch •	



Pedestrianisation

How urban transport strategies are used to reduce traffic congestion: Manchester

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.....

Outline what Manchester has done to reduce traffic and the effects of traffic:

Metroshuttle

Bike hire

Electric bollards

Give 2 reasons why there are more cars on the roads now:

Metrolink

Identify the adv	vantages and disadva	ntages of t	he scheme	es used by Mancheste	er to reduce
Advan	tages/successes			Disadvantages/fa	ailures

The Changing Economic World – Section B

There are global variations in economic development and quality of life What is development? List the measures of development that are used to classify countries and give a brief definition. The list has been started for you: GNI (Gross National Income) HDI (Human Development Index) Literacy rate What are the limitations of these measures of development? I.e. why can they not be trusted entirely?

The Demographic Transition Model (DTM) shows changes over time in the population of a country. As a country develops it should move through the stages of the model.

Stage		1 High stationary	2 Early expanding	3 Late expanding	4 Low stationary	5 ? Declining?	now does a failing birth rate
	40-	· · · g·· stationary	Birth rate	Late expanding	LOW Stationary	Deciming:	(fewer children) reflect
	40	Death rate				?	increased economic
Dieth	30-						development?
Birth and death				Natural			·
rates (per 1000	20-		\sim	increase			
people per year)	10-					Natural decrease 2	
1	10-	Total population				====	
	0					?	
Examples		A few remote groups	Egypt, Kenya, India	Brazil	USA, Japan France, UK	Germany	
Birth rate		High	High	Falling	Low	Very low	
Death rate Natural		High Stable or	Falls rapidly	Falls more slowly	Low Stable or	Low	
increase		slow increase	Very rapid increase	Increase slows down	slow increase	Slow decrease	
Reasons for changes in birth rate		Many children needed children die at an early encouragement. No fa	age. Religious/social	Improved medical care and diet. Fewer children needed.	Family planning Improving statu Later marriage:	s of women.	
Reasons for changes in death rate	1	Disease, famine. Poor medical knowledge so many children die.	Improvements in med and sanitation. Fewer	ical care, water supply children die.	Good heal Reliable fo		
At Land			4				
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	••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	•••••	•••••	
	Н	low does an	increasing	death rate r	eflect high le	evels of dev	elopment?
	••						
	••	• • • • • • • • • • • • • • • • • • • •			•••••	•••••	
	_	سنمال مناهان	о Г fo oto но t	ممنيم عمل	اميرمام مميرم	a na na a na + /+ la	
		=				opment (the	ere should be at least one
	p	hysical, one	economic a	and one hist	orical):		
	•						
		•••••	••••••	•••••	••••••	•••••••	
	•						
					•••••		
	•						
			•••••		•••••		

Na	me:
•	
•	
WI	nat does the word 'disparity' mean?
Rri	efly outline how the factors below are caused by uneven development:

Briefly outline how the factors below are caused by uneven development:

Consequence: disparities in wealth	Consequence: disparities in health	Consequence: international migration

'GOLD DIGGERS'

What is the development gap? What message does this image show?

Complete the table below outlining what each strategy involves and how it will help to improve the development of LICs:

Strategy	What does it involve?	How will this reduce the development gap?
Investment		
Industrial development		
Tourism		
Aid		

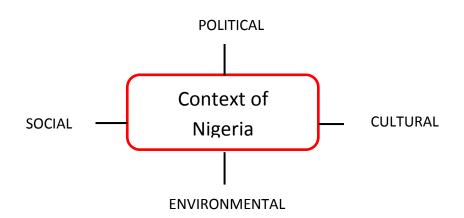
Name:			
Intermediate technology			
Fairtrade			
Debt relief			
Microfinance loans			
List 3 attraction country: •	ntages and 4 disadvantages (be spe	tract touri	ourism in Jamaica – how does it help
	Advantages		Disadvantages

Nigeria:

Some LICs and NEEs are experiencing rapid economic development which leads to significant social, environmental and cultural change

A case study of a NEE: Nigeria, Africa

North O EUROPE worldatias	Describe the location of Nigeria (using geographical
Adamic Ocean Mediterropean East East	terminology).
23'SN TROPIC OF	
AFRICA Arabian	
South Atlantic Ocean Ocean Ocean	
28'55 Tropic of CAPRICORN 1000 mi	
@GraphicHops.com 0" 1000 km Map of Africa	
Why is it such an importan	t country globally? What does it contribute to the world?
\\/\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
why it one of the most imp	portant countries in Africa?
Complete the mind man sh	nowing the political, social, cultural and environmental aspects of



Describe how Nigeria's economy has changed using the pie charts below:

			•	•••••	•••••
Key Agriculture Industry	1999	2012	٦.		
Services			M.		
			М		
			/ -		
			┛		
			•		
					_
How does the g	rowth in manufacturir	ng affect Nigeria's e	economi	c development	?
•••••		••••••	••••••	•••••••	
What is a TNC?					
•••••			••••••	•••••	•••••••••••
Why do TNCs li	ke Unilever locate in N	igeria?			
•					
•					
▼					

Complete the table below showing the advantages and disadvantages of TNCs in Nigeria:

Advantages	Disadvantages
How has the presence of Unilever and Shell O development?	il in Nigeria stimulated industrial
How has Nigeria's political links with the rest of gained independence?	of the world changed since the 1960s when it

What does Nigeria contribute in terms of trade to the rest of the world?

Control of the Contro	
What is aid?	
When would a country receive	e emergency aid?
When would a country receive	e developmental aid?
Why does Nigoria pood aid?	Sive 2 reasons:
Why does Nigeria need aid? G	ive 3 reasons:
•	
•	
•	



How does aid benefit Nigeria and what prevents this aid being used effectively?

Benefits of aid to Nigeria	Why aid may not be effective in Nigeri
Outline how economic growth can have a	negative effect on the environment:
Outline how economic growth can have a Industrial growth leads to	negative effect on the environment:
	negative effect on the environment:
Industrial growth leads to	negative effect on the environment:
Industrial growth leads to	negative effect on the environment:
Industrial growth leads to	negative effect on the environment:
Urban growth leads to	negative effect on the environment:
Industrial growth leads to	negative effect on the environment:

Has people's quality of life in Nigeria improved as a result of economic development?

Yes it has improved	No it has not improved

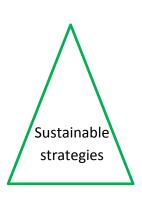
Major changes in the economy of the Ul	K have affected, and will continue to affect,
employment patterns and regional grow	rth .

Outline how the UK's employment structure has changed since 1800 (i.e. primary, secondary, tertiary and quaternary industries).				
Why has it changed in this way	? Complete the table below out	lining the impact of each		
factor on the UK economy:		O T Process		
De-industrialisation	Globalisation	Government Policies		
What is a post-industrial economy?				
How has the development of IT affected the growth and characteristics of the UK's				
economy?				

Name:	
Outline how service industries, finance and re	search affect the UK economy:
Service industries and finance	Research
What is a science park?	
What is a business park?	
How do science and business parks provide on	oportunities for regional economic growth?

Name:	
What are the impacts of industry on the physical environment (e.g. quarries)?	
	•••
•	
•	
	•

Complete the mind map to show ways in which industrial development can be more sustainable:



Rural landscapes are changing in the UK; some areas are experiencing rapid population growth as people are moving out into the countryside for a more peaceful life, whereas other areas are experiencing population decline.

What are the social and economic impacts of a growing population and a declining population?

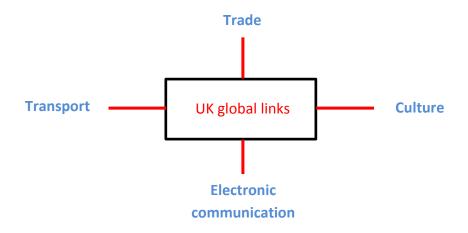
	Social effects	Economic effects
Growing population		
Declining population		

Improvements to transport infrastructure affect both employment and regional growth.

Type of Transport	Improvements made
Road improvements	
NEED TRANSPORT ASSESSMENT ASSESSM	
Railway improvements	
Developing ports	
Airport developments	

*	What is the north-south divide?
	Give 2 reasons why there is a north-south divide:
	these regional differences can be resolved (try to give some specific gies used in the UK):
•	
•	
•	
•	
How can improved	transport links help reduce the north-south divide?

The UK has global links through trade, culture, transport and electronic communications. Briefly outline information for each on the mind map below:



In 1973 the UK became a member of the European Union (EU). It includes 28 countries and has important trading and political influence. In 2016, however, the UK voted to leave the EU and will complete its exit by 2019.





How has the EU affected the UK?

•	3
•	
•	

The UK is a member of the Commonwealth which is a voluntary group of 53 countries and 2.2 billion people.

How does the UK benefit from being in the Commonwealth?

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What are resources?

The Challenge of Resource Management – Section C

Food.	water and	energy ar	e funda	mental to	human d	development
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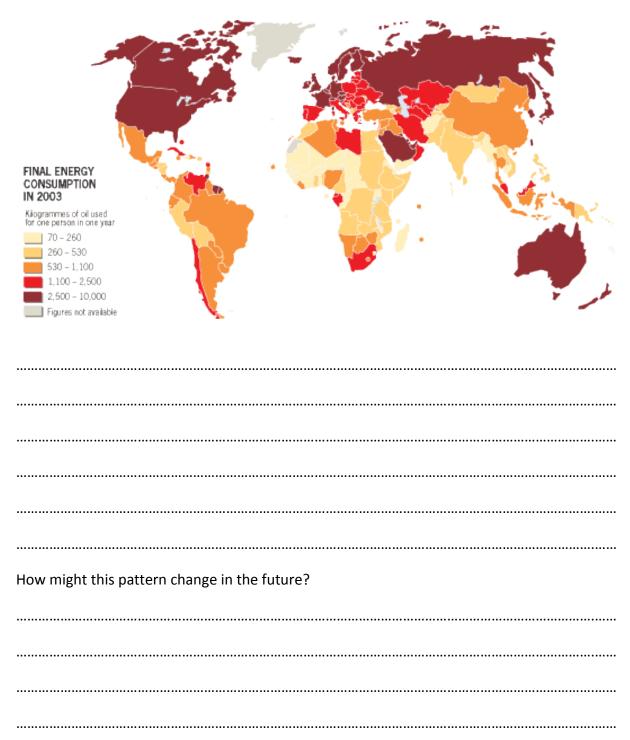
<u>Food</u>
Describe the pattern of global undernourishment.
% of population undernourished
Why does undernourishment or malnutrition lead to a slowly growing economy?
What is becoming an increasing health issue in HICs linked to food?

Water What is meant by physical water scarcity? Give an example of a place that has this.
What is meant by economic water scarcity? Give an example of a place that has this.
Little or no water scarcity Approaching physical water scarcity Physical water scarcity Economic water scarcity Name 3 continents that have mostly little or no water scarcity:

Name 3 countries that have mostly little or no water scarcity: •
•

Energy

Describe the global pattern of energy consumption.



The changing demand and provision of resources in the UK create opportunities and challenges

Food in the UK

The UK imports about 40% of the total formuch food below:	ood consumed. List 4 reasons why it imports so
•	
•	
•	
our carbon footprint (an individual's use Kenya, e.g. mange tout and green beans price, whereas, supermarkets earn 45%	n as 'food miles'. This is very expensive and adds to e of greenhouse gases). Many vegetables come from a. The farmers in Kenya receive only 12% of the final of the price. p to reduce the reliance on foreign imports?
Tank N.	Agribusiness:
	Agribusiness helps because
What is organic produce ?	

Name:	
Give 3 advantages of eating local food for people in the	e UK and the environment.
•	
•	
•	
Water in the UK	
	Give 3 reasons for the increased
Average Household Water Use UK (Waterwise) Other 4% 5%	demand for water in the UK:
Outdoor 7% Toilet	•
Washing up	
	•
Clothes washing 13%	
Showers 21%	•
What is meant by water surplus and water deficit? Gibeth:	ve an example of areas in the UK for

both:

Water surplus:		
	 	••••••
Water deficit		

Complete the table below to outline how the UK is coping with increased water demand:

Saving water	Water transfer	Managing water quality

Wh	y are some water supplies suffering from pollution?
•	
•	
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Energy in the UK

Despite increasing demand for electricity in the UK, energy consumption has actually fallen. Give 2 reasons for this:		
•		
Describe how the UK's energy	mix has changed since 1990.	
What is meant by energy secu	rity?	
What is happening to the UK's	supplies of coal, gas and oil?	
Coal	<u>Gas</u>	<u>Oil</u>

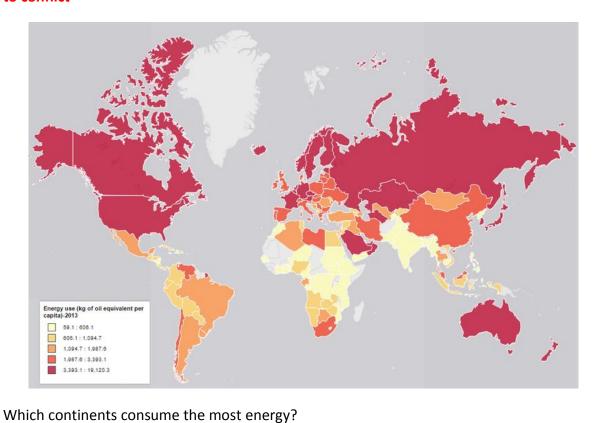


By 2020 the UK aims to meet 15% of its energy requirement from renewable sources. However, it is still heavily reliant on fossil fuels. Why are fossil fuels still so important?

•	
•	
•	
Why is fracking controversial?	
Nuclear energy and wind energy are two important energy sources being developed in the UK. Complete the table below to show the economic and environmental issues associated with exploiting these resources:	

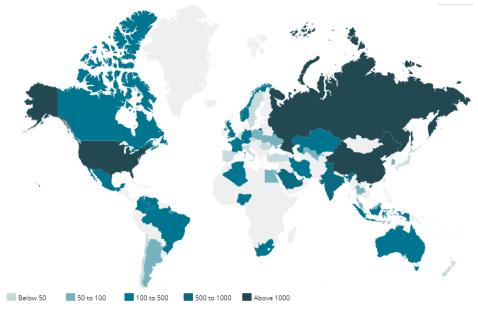
	Economic	Environmental
Nuclear		
Wind		
farms		

Demand for energy resources is rising globally but supply can be insecure, which may lead to conflict



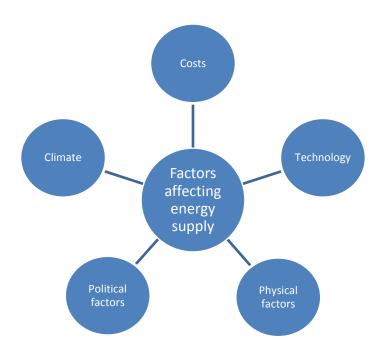
Which continent consumes the least energy?
Why is global energy consumption increasing?
•
•





What is the meaning of energy	insecurity?	

Complete the spider diagram below explaining the factors affecting energy supply:



What are the impacts of energy insecurity? Complete the table below outlining the effects:

Exploiting resources in difficult and sensitive areas	
To a series of the decorate of the	
Impacts on food production	
Incheste on Suduration	
Impacts on industry	
Political conflict	
Social unrest	

Name:					
Different strategies can be used to increase energy supply What is the meaning of renewable energy?					
Renewable energy source	How does it work?				
Biomass					
Wind					
VIIII					
HEP					
Tidal					
Hadi					
Geothermal					

Wave

Solar

Name:
What is the meaning of non-renewable energy ?
What are the problems with the following types of non renewable energy?
Fossil Fuels
Nuclear power
Gas- a non- renewable resource example
The state of the s
What is natural gas and how has it formed?
What is natural gas and how has it formed?
What is natural gas and how has it formed?
What is natural gas and how has it formed?
What is natural gas and how has it formed?

What are the advantages/ disadvantages of extracting natural gas?

Advantages	Disadvantages

Sustainable energy use



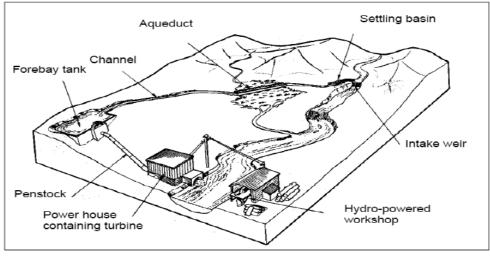
What is sustainable energy?
What is energy conservation?

Name:
Give 4 ways in which energy could be conserved
•
•
•
Give 4 ways in which energy demand could be reduced
•
•
•
How can technology increase efficiency of fossil fuels?
An example of a local renewable energy scheme in an LIC or NEE to provide sustainable supplies of energy- The Chambamontera micro-hydro scheme



Why does Chambamontera need a sustainablenergy scheme?	

What is the Chambamontera micro-hydro scheme?



(Diagram: Layout of a typical micro-hydro scheme)

••••	
Но	w has the scheme benefitted the local community?
•	
•	
•	
•	
•	
•	
•	
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