

Geography AQA

Paper 2. Topic 3 – The Challenge of Resource Management

UK resources

Exam Booklet

3.2.3.3 Water

Key idea	Specification content
Demand for water resources is rising globally but supply can be insecure, which may lead to conflict.	Areas of surplus (security) and deficit (insecurity): • global patterns of water surplus and deficit • reasons for increasing water consumption: economic development, rising population • factors affecting water availability: climate, geology, pollution of supply, over-abstraction, limited infrastructure, poverty. Impacts of water insecurity – waterborne disease and water pollution, food production, industrial output, potential for conflict where demand exceeds supply.

Key idea	Specification content
Different strategies can be used to increase water supply.	Overview of strategies to increase water supply: • diverting supplies and increasing storage, dams and reservoirs, water transfers and desalination • an example of a large scale water transfer scheme to show how its development has both advantages and disadvantages. Moving towards a sustainable resource future: • water conservation, groundwater management, recycling, 'grey' water • an example of a local scheme in an LIC or NEE to increase sustainable supplies of water.

EXAM PRACTISE QUESTIONS

1. Define water insecurity. (1 mark) Pg 107 in revision guide

Description

2. Define water surplus. (1 mark) Pg 107 in revision guide

Description

3. Give 3 factors that affect water security. (3 marks) Pg 107 in revision guide

(K)nowledge

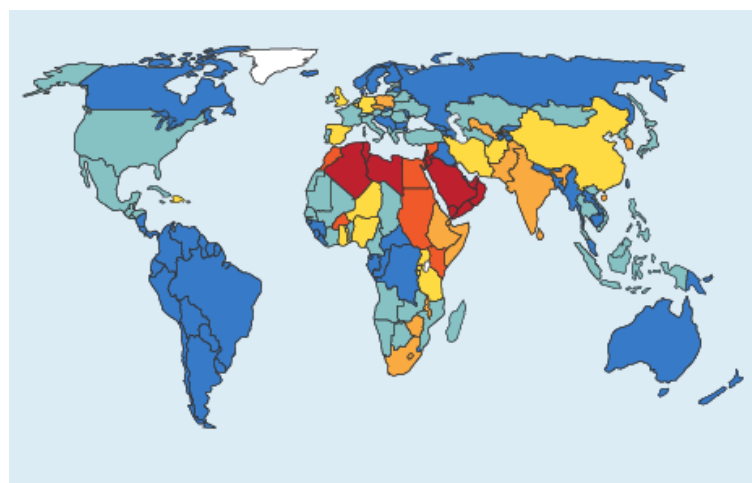
(K)nowledge

(K)nowledge

4. Define water stress. (1 mark) Pg 107 in revision guide

Description

Figure 1 – A choropleth map showing the quality of global water supplies around the world.



Access to renewable water sources



5. Using **Figure 1**, Describe the global pattern of water surplus and scarcity. (3 marks)

(D1) escribe	(D2) escribe	(D3) escribe

6. Explain the social and economic reasons why water demand is rising. (4 marks) Pg 107 in revision guide

(K) nowledge (Social)	(U) nderstanding (Social)	(K) nowledge (Economic)	(U) nderstanding (Economic)

7. Explain two physical factors affecting water availability. (4 marks) Pg 108 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

8. Explain the economic and social factors affecting water availability. (4 marks) Pg 108 in revision guide

(K) nowledge (social)	(U) nderstanding	(K) nowledge (economic)	(U) nderstanding

9. Explain the impacts of water insecurity. (4 marks) Pg 108 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

10. Explain two large-scale strategies to increase water supplies. (4 marks) Pg 109 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

11. Using an example of a large-scale water transfer scheme you have studied, suggest why the scheme was needed. (3 marks) Pg 110 in revision guide

(K) nowledge	(U) nderstanding	(U) nderstanding

12. Using an example of a large-scale water transfer scheme you have studied, suggest the advantages of the scheme. (4 marks) Pg 110 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

13. Using an example of a large-scale water transfer scheme you have studied, suggest the disadvantages of the scheme. (4 marks) Pg 110 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

14. Explain how water conservation and groundwater management are sustainable strategies to increase water supplies. (4 marks) Pg 111 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

15. Explain how water recycling and using 'grey water' are sustainable strategies to increase water supplies. (4 marks) Pg 111-2 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

16. Using an example of a local scheme in a LIC or NEE to increase sustainable supplies of water, explain why the scheme was needed. (3 marks) Pg 112 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge

17. Using an example of a local scheme in a LIC or NEE to increase sustainable supplies of water, explain the advantages of the scheme. (4 marks) Pg 112 in revision guide

(K) nowledge	(U) nderstanding	(K) nowledge	(U) nderstanding

Question	Discuss the factors affecting water availability. (6 marks)			
	A (application)	K (knowledge)	U (understanding)	U (understanding)
Paragraph 1				
Paragraph 2 (Challenge – grade 6 +)				
Conclusion (Challenge – grade 8+)				

Question	Assess the social and economic impacts of water insecurity. (6 marks)			
	A (application)	K (knowledge)	U (understanding)	U (understanding)
Paragraph 1				
Paragraph 2 (Challenge – grade 6 +)				
Conclusion (Challenge – grade 8+)				