

	Tectonics		Coasts				Water and Carbon				
	4	12	6	6	8	20	3	6	8	12	20
2018	Spearman's Rank	Assess the reasons why some communities are more vulnerable than others to tectonic hazards.	Explain how variations in the rate of coastal recession in North Norfolk may provide evidence for the different approaches to coastal management.	Explain the physical processes that affect the rate of coastal recession.	Explain the role of sediment transport in creating distinctive landforms.	Evaluate the view that hard engineering approaches to coastal management produce more winners than losers.	Explain the relationship between precipitation and soil moisture.	Explain why land use changes can increase flood risk.	Explain why the price of water varies globally.	Assess the role of oceans in regulating the carbon cycle.	Evaluate the view that mitigation strategies are more important than adaptation strategies in addressing the risks posed by the degradation of the carbon cycle.
2019	Averages	Assess the reasons why managing the impacts of tectonic hazards varies in its effectiveness.	Explain the contribution of marine erosional processes to the development of this landscape.	Explain the contribution of coastal deposition to the development of this landscape.	Explain why a range of approaches is needed to manage coastal landscapes.	Evaluate the view that coastal flood risks are increasing mainly because of rising sea levels.	Explain one impact of the changes in biofuel production in Brazil on the carbon cycle.	Explain why the level of economic development affects the energy mix of countries.	Explain why there are uncertainties about future levels of carbon release from peatlands and permafrost.	Assess the role of physical factors in influencing the pattern of future water stress.	Evaluate the view that large-scale water management projects often create more problems than they solve for people and the environment.
2020	Spearman's rank	Assess the relative importance of physical factors and processes in explaining the impacts of volcanic eruptions.	Explain the role of isostatic processes in causing changes in relative sea level.	Explain the role of sediment transport in the development of this coastal landscape.	Explain why sustainable management of coastlines may lead to local conflicts.	Evaluate the view that rates of coastal recession are largely controlled by geological factors.	Explain one impact of an El Niño event on the hydrological system.	Explain how the physical features of a drainage basin affect the shape of storm hydrographs. You may draw a diagram to help your answer.	Explain why human actions often increase water insecurity.	Assess the importance of renewable energy in reducing the risks of further planetary warming.	Evaluate the view that changes to the carbon cycle pose more threats to people than changes to the water cycle.
2021	Graph and line of best fit	Assess the view that the social and economic impacts of earthquakes are mainly the result of their magnitude.	Explain how changes in sea level have produced different coastlines.	Explain the differences in the characteristics of beaches over time, such as between summer and winter.	Explain the importance of vegetation in stabilising coastal landscapes.	Evaluate the view that coastal management policies are mainly based on economic judgements.	Explain one possible consequence of the changes in unconventional oil production.	Explain the geological processes that influence the levels of carbon in the atmosphere.	Explain why changes in ocean health may threaten people's well-being.	Assess the impacts of climate change on the flows (processes) in the hydrological cycle.	Evaluate the view that most trans-boundary water conflicts are impossible to solve.
2022	Averages	Assess the importance of prediction and forecasting in reducing the vulnerability of communities to earthquake hazards.	Explain the contribution of marine processes in the development of these landforms.	Explain how subaerial processes contribute to the development of this landscape.	Explain the role of sea level change in the formation of both emergent and submergent coastlines.	Evaluate the view that global warming is the greatest threat to coastlines and their communities.	Suggest one reason for the differences in the growth of electricity generated from solar power.	Explain how oceans regulate the composition of the atmosphere.	Explain the contribution of human activity to the risk of drought.	Assess how successful different countries have been in achieving energy security.	Evaluate the view that land use changes are the main cause of the increasing risk reef river flooding.

2023	Spearman's Rank	Assess the effectiveness of strategies used to manage the impacts of volcanic hazards.	Explain the contribution of erosional processes in producing sediment.	Explain the role of global warming in changing mean sea level since 1920.	Explain the role of geology in the formation of contrasting cliff profiles.	Evaluate the view that without hard engineering there is little future for coastal communities threatened by coastal recession and flooding.	Explain one possible impact on local communities of the development of onshore wind farms.	Explain how adaptation strategies, such as water conservation, may help communities cope with a changed climate.	Explain how water insecurity can cause both social and economic problems.	Assess the extent to which land use affects the shape of these storm hydrographs.	Evaluate the view that human activities are having a greater impact on shorter term biological processes than on longer term geological processes.
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	Numeracy Question	Question asking you to refer to a specific figure in the resource book
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