

## Links to the Exam Specifications: How does ocean acidification meet key learning objectives in the AS, A2 and IB specifications?

Exam spec	Enquiry questions	Key learning objectives	Examples
<b>Edexcel Unit 1: Global Challenge</b>  <b>Climate change and its causes</b>	<i>Is global warming a recent short term phenomenon or should it be seen as part of long term climate change?</i>	The current phenomenon of global warming should be set in the context of longer, medium and short term climate change. A range of evidence from ecology, historical records and climate change should be reviewed.	Researching the evidence of recent climate change could include scientific research from weather, ocean, polar ice and ecosystem changes.
	<i>What are the impacts of climate change and why should we be concerned?</i>	A case study of environmental and ecological impacts of Arctic warming in the Arctic region.	Developing an awareness of the direct impacts of global warming through case studies of vulnerable places to understand the resulting environmental, ecological and economic impacts.
<b>OCR Unit F761: Managing Physical Environments</b>  <b>Cold environments</b>	<i>Why are cold environments considered to be 'fragile'?</i>	Climatic extremes lead to finely balanced ecosystems which can be easily damaged.	The study of one cold environment to illustrate the impacts of climate on the nature of the ecosystem.
<b>WJEC Unit G1: Changing Physical Environments</b>  <b>Investigating Climate Change</b>	<i>What are the issues resulting from climate change?</i>	Changing climates and shifting climate belts and the effects on biomes	Research into the impacts of global warming on different countries and regions.
<b>IB Unit Part 2: Optional Themes</b>	<i>Option B: Oceans and their coastal margins</i>	Oceans and climate: Carbon dioxide	Examine the role of oceans as a store and source of carbon dioxide (CO <sub>2</sub> )
	<i>Option C: Extreme environments</i>	Sustainability: Impact	Discuss the potential impact of global climatic change (global warming) on the indigenous populations, settlement and economic activities in extreme environments.