

Our whole school curriculum aims to give our students the knowledge and skills to succeed in the world as it is, and the wisdom, empathy and courage to fashion the world as it should be.



Through studying *Environmental Systems and Societies (ESS)*, students will be provided with an understanding of the complex interrelationships between the environment and people; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. The course also aims to foster an international perspective, awareness of local and global environmental concerns and an understanding of the scientific methods.

Students are encouraged to evaluate the scientific, ethical and socio-political aspects of environmental issues.

Year 12	Knowledge and skills
<b>Term 1</b>	1.1 Environmental value systems 1.2 Systems and models 1.3 Energy and equilibria 1.4 Sustainability 1.5 Humans and pollution
<b>Term 2</b>	2.1 Species and populations 2.2 Communities and ecosystems 2.3 Flows of energy and matter
<b>Term 3</b>	2.4 Biomes, zonation and succession 2.5 Investigating ecosystems 3.1 An introduction to biodiversity
<b>Term 4</b>	3.2 Origins of biodiversity 3.3 Threats to biodiversity 3.4 Conservation of biodiversity
<b>Term 5</b>	Exams Field trip to Wye Downs 4.1 Introduction to water systems 4.2 Access to fresh water Internal Assessment - introduction
<b>Term 6</b>	Internal Assessment - completion of practical and draft submitted 4.3 Aquatic food production systems

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Year 13	Knowledge and skills
<b>Term 1</b>	4.4 Water pollution 5.1 Introduction to soil systems 5.2 Terrestrial food production systems and food choices 5.3 Soil degradation and conservation
<b>Term 2</b>	Exams 6.1 Introduction to the atmosphere 6.2 Stratospheric ozone 6.3 Photochemical smog 6.4 Acid deposition
<b>Term 3 -</b>	7.1 Energy choices and security 7.2 Climate change—causes and impacts 7.3 Climate change—mitigation and adaptation 8.1 Human population dynamics
<b>Term 4</b>	8.2 Resource use in society 8.3 Solid domestic waste 8.4 Human population carrying capacity  Revision and exam preparation