



	Theme	Overview of key learning to take place	How learning will be assessed
Term 2	Unit 1: The Hydrosphere	<p>Key Topic 1: How is water stored and transferred globally and locally?</p> <ul style="list-style-type: none">a) I can describe and identify the main storage zones of water held in the hydrological cycles on a local and global scale.b) I can describe and explain how human activity in the form of urban development, deforestation and agriculture may cause rivers to flood. <p>Key Topic 2: What has been the impact of human activity on the quantities of water in natural stores?</p> <ul style="list-style-type: none">a) I can evaluate and assess the impact of climatic change and global warming on sea and ice volumes.b) I can discuss the impact of agriculture and the supply of water for industrial and domestic use upon natural supplies of water.c) I describe the interaction between growth in population and water supply in countries with contrasting levels of economic development. <p>Key Topic 3: How can water supply be sustained and what are the environmental consequences of the artificial storage of water?</p> <ul style="list-style-type: none">a) I can describe the management of water supply on a local and regional scale, including disparities in water resources, the demand for water and the supply of water.b) I can assess the advantages: water supply recreation, power, environment and local climate. Disadvantages: cost, silting, socio-economic and environmental.c) I can evaluate water supply in arid including ground water and desalinisation.	CIE style questions

		<p>Key Topic 4: How does human activity lead to the pollution of water stores and stores and how can this form of pollution the managed?</p> <ul style="list-style-type: none"> a) I can describe the causes of pollution of groundwater by metals, nutrients, and organic compounds. Nutrient enrichment and eutrophication and its effects. b) I can assess the impact sewage disposal upon rivers, lakes and sea and the main health and environmental problems associated with the disposal of sewage sludge. c) I can evaluate the effects of marine pollution on aquatic and bird life and on the coastal environment. 	CIE style questions
Term 2	Unit 2: The Biosphere	<p>Key Topic 1: What are the major abiotic and biotic factors, which drive and influence the distribution of different ecosystem?</p> <ul style="list-style-type: none"> a) I can describe the abiotic and biotic factors which control the distribution of the world’s major biomes. b) I can outline the characteristics of ecosystems in terms of their biotic and abiotic components – soil, temperature, rainfall, photosynthesis, NPP, succession, biomass, biodiversity, trophic levels, food chains and webs, habitats and niches. c) In can evaluate the relationship between ecological pyramids, pyramids of numbers, biomass and energy. <p>Key Topic 2: How has human activity both disrupted and destroyed ecosystems?</p> <ul style="list-style-type: none"> a) I can assess the impact of agriculture, deforestation, exploitation and fires upon terrestrial ecosystems. b) I can explain the formation of plagioclimaxes, arrested successions and loss of biodiversity. c) I can evaluate the effects of clearing tropical rainforest for industrial and agricultural use and the influence of human activity upon marine ecosystems (coastal waters, ocean and coral reefs). <p>Key Topic 3: What methods have been used to preserve, conserve, and restore?</p>	CIE style questions

- a) I can describe methods such as National Parks, afforestation, maintaining biodiversity through, pollution control, changing agricultural systems, ecotourism, forest conservation, wildlife management, and ecological islands.
- b) I can assess the impact of international protocols such as the Rio de Janeiro, Montreal, Kyoto and Bali.

Key Topic 4: What has been the impact of population growth upon the resources of countries at contrasting levels of economic development?

- a) I can describe the population models of Malthus and Boserup and explain the concepts of overpopulation, under population and optimum population.
- b) I can assess the impact of policies aimed at resolving issues such as sustainable and more productive farming methods in countries with contrasting levels of economic development; economic and social development; the sustainable provision of energy and industrial raw materials.