

CAPE Environmental Science Unit 2

Proposed Week	Section	Term 1 Topic	Modules
Wk 1	1	Introduction to Pollution	Definitions, Examples, Properties Pathways, Receptors Underlying Causes/Sources The Atmosphere Primary Air Pollutants (Nature, Sources, Effects) Secondary Air Pollutants (Formation, Effects) IA Planning
Wk 2-6	2	Air Pollution	Global Climate Change Stratospheric Ozone Depletion Mitigating Air Pollution Noise Pollution IA Practical Work Begins Properties of Water Water Pollutants (Sources & Effects) Factors Affecting Concentration & Impact
Wk 7-9	3	Water Pollution	Major Water Quality Issues Water Quality Testing Drinking Water & Sewage Treatment Sources, Causes, Pathways, Impacts
Wk 10	4	Land Pollution	Waste Management & Disposal Hazardous Waste Technological Approaches Legislative Approaches
Wk 11	5	Managing Pollution	International Environmental Agreements Environmental Impact Assessment Public Awareness & Education
Wk 12-13	6	Introduction to Agriculture	Definitions, Roles, Systems Modern Conventional Agro-Systems & Methods Environmental Impacts of Modern Agriculture

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Proposed Date/Week	Unit/Section	Term 2 Topic	Modules
Wk 1-3	7	Sustainable Agriculture	Features Threats Methods (Details) Definitions, Principles, Conversions
Wk 4	8	Energy	Units, Efficiency calculations Roles in Modern Society Conservation Fossil Fuels: Types, Sources, Uses, Impacts
Wk 5-6	9	Conventional Sources & Generation	Generation & Transmission of Electricity Co-generation & Combined Cycles Hydroelectric: Generation, Impacts Nuclear Fission: Generation, Controversies Direct Solar: Active, Passive, Thermal, Photovoltaic
Wk 7-9	10	Alternative Energy Sources	Indirect Solar: Wind, Wave, Ocean Thermal, Biomass Other: Tidal, Geothermal, Nuclear Fusion Secondary Energy Sources: Batteries & Fuel Cells Uses, Environmental & Other Issues