

Diploma Programme Course Outline

Name of the DP subject	Environmental System & Societies	
Level	YR2 Standard	
YEAR 2		
UNIT 6- Atmospheric Systems and Societies	TOPIC/CONCEPT	ASSESSMENT COMPONENTS
6.1- Introduction to the Atmosphere	<ul style="list-style-type: none"> ● Changes in the Atmosphere over Geological Time; ● Atmospheric Gases and the Variations in Composition with Altitude; ● Earth's Energy Budget; ● Human Activities and Atmospheric Composition; ● The Greenhouse Effect 	
6.2- Stratospheric Ozone	<ul style="list-style-type: none"> ● UV Radiation and Ozone; ● Ozone Depleting Substances and Strategies to Reduce; ● Effects of Ultraviolet Radiation on Humans; ● The Role of UNEP; ● National and international organizations and the reduction of ODSs 	

6.3- Photochemical Smog	<ul style="list-style-type: none"> ● Source and Impact of Tropospheric Ozone; ● Primary Pollutants and Sunlight; ● The Effects of Tropospheric Ozone (on forests & crops, humans and materials); ● Ozone and Smog; ● Thermal Inversions; ● Pollution Management Strategies 	Worksheet on 6.1- a section of 6.3 PSOW: Design and carry out an investigation to compare the air pollution level at three nearby locations using Vaseline-covered white card.
6.4- Acid Deposition	<ul style="list-style-type: none"> ● The Formation of Acid Deposition; ● Indirect and Direct Effects of Acid Rain; ● Distribution of Acid Deposition ● Pollution Management Strategies 	
UNIT 8 - Human Systems and Resource Use	TOPIC/CONCEPT	ASSESSMENT COMPONENTS
8.1 - Human population dynamics	<ul style="list-style-type: none"> ● Demographic variables ● Human population growth ● International development plans 	
8.2 - Resource use in society	<ul style="list-style-type: none"> ● Renewable natural capital ● Sustainable and unsustainable use of renewable natural capital ● Dynamic nature and concept of a resource 	
8.3 - Solid domestic waste	<ul style="list-style-type: none"> ● Types of solid domestic waste ● Disposal options for solid domestic waste ● Strategies for managing solid domestic waste 	PSOW: Create a survey to collect data and report on the extent to which, and ways in which individuals in the school can reduce their

	<ul style="list-style-type: none"> ● The Great Pacific Garbage Patch 	contribution to the landfill in Philipsburg, St. Maarten
8.4 - Carrying capacity and ecological footprints	<ul style="list-style-type: none"> ● Carrying capacity of a population ● Optimum - , over - , and under - population ● Population growth and food resources ● Changing carrying capacities ● Ecological footprint 	Formative assessment: Topic 6 & 8

All Diploma Programme courses are designed as two-year learning experiences.