		ID LOC	Teal 2- MINS 3	abject Group C	J V C I V I C W	_	
Unit Nan	Unit 1 Land	Unit 2 IA Proposals	Unit 3 Atmosphere and Climate Change	Unit 4 Natural Resources	Unit 5 IA Work	Unit 6 Human Population and Urban Systems	Review & Exams
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Time Frame	7 weeks	2 weeks	5 weeks	5 weeks	2	Formula	7
Standards/	, weeks	Topics: 2.5 / 8	Topic 6	Topic 7	2 weeks Topic 2.5	5 weeks Topic 8	7 weeks Topics 1 – 8
	Topic 5	Objectives 1, 2, 3, 4	6.1 Introduction to the	7.1 Natural	Investigating	8.1 Human	S1/S2 Review
	5.1 Land	Objectives 1, 2, 3, 4	atmosphere	Resources: uses and	Ecosystem	populations	31/32 Neview
	5.2 Agriculture and		6.2 Climate change:	management	Practical Work	8.2 Urban systems and	
	food		causes and impact	7.2 Energy	IA Proposal and	urban planning	
IB Topics	1000		6.3 Climate change:	sources-uses and	Design	8.3 Urban air pollution	
			mitigation and	management	Design	0.5 Orban an ponation	
			adaptation	7.3 Solid Waste			
			6.4 Stratospheric ozone	7.5 John Waste			
	Statement of Inquiry	Scientific investigation	Statement of Inquiry	Statement of Inquiry	Statement of Inquiry	Statement of Inquiry	Statement of
	Soils are complex	The internal	The atmosphere is a	The choice of energy	Ecosystems can be	Global biodiversity is	Inquiry
	systems whose	assessment, worth	dynamic system that is	sources is	better understood	decreasing rapidly due	It is not just
	degradation	20% of the final	essential to life on	controversial and	through investigation	to human activity.	population growth
	threatens food	assessment, consists	Earth.	complex.	and analysis of	,	that causes an
	security and	of one scientific			changes through	Phenomenon:	increase in food
	ecosystem function.	investigation. This	<u>Phenomenon</u>	Phenomenon	time.	The term	demand; standard
		individual	Changing the	Climate change is		"biodiversity' refers	of living is
	Phenomenon	investigation will	atmosphere affects how	making the epic	Phenomenon:	to the fact that	important too.
Content	Desertification is	cover a topic that is	much water trees need.	California drought	Environmental	heterogeneity at	
Specific	expanding in areas	commensurate		worse.	systems, issues, and	different ecological	<u>Phenomenon</u>
Information	like the Sahel,	e with the	Crosscutting Concepts		changes allow for	levels is a	Twenty African
(texts,	reducing agricultural	level of the	Patterns	Crosscutting	inquiry and	fundamental	nations have
documents.	productivity	course of	 Energy and Matter 	Concepts	investigation.	property of natural	banded together to
methods)		study.	 Stability and Change 	 Cause and Effect 		systems.	build a
memous	Crosscutting		 Cause and Effect 	Stability &	Crosscutting		monumental Great
	Concepts	Student work is	 Systems and System 	Change	Concepts:	Crosscutting	Green Wall of Africa
	Energy and	internally assessed	models	 Energy and Matter 	 Cause and Effect 	Concepts	
	matter	by the teacher and			 Systems and 	 Cause and Effect 	Crosscutting
		externally	CORE IDEAS	CORE IDEAS	System Models	 Stability & Change 	Concepts
		·	Atmosphere	Energy Choice and			Energy and
			atmospheric	Security	CORE IDEAS:	CORE IDEAS	Matter
			composition	Climate Change -	Ecological	Biodiversity	Stability and
			ozone	Causes and Impacts	Investigations	Species Diversity	Change
			UV radiation		Sampling strategies	Genetic Diversity	 Cause and Effect

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			human activities contributing to ozone depletion pollution management photochemical smog acid deposition	Climate Change - Mitigation and Adaptation	Measuring abiotic and biotic factors Investigating changes along an environmental gradient Estimation of biomass and different trophic levels Population estimations (motile and non-motile organisms) Graphical analysis and interpretation Species diversity indices Human impacts	Urbanization, population growth, and consumption patterns drive global environmental change and demand sustainable solutions. Phenomenon: Megacities like Lagos face immense strain on infrastructure and natural resources. Crosscutting Concepts Cause and Effect Stability & Change	 Energy and Matter Stability and Change Cause and Effect Systems and System models
Common Assessments/ Major Projects	production- Natural vs Fisheries Spiral back to Apo Island Case Study	SEP Planning and Carrying out investigations Asking Questions and Defining Problems Internal Assessment: Discussion of environmental issue of choice Communication of information in a coherent and logical way	SEP Asking Questions and Defining Problems Developing & Using Models Planning and Carrying out investigations Engage in Argument from Evidence Major Projects Case studies Research Group project	SEP	SEP Asking Questions and Defining Problems Developing & Using Models Planning and Carrying out investigations Engage in Argument from Evidence Internal Assessment: Results: Data Collection Analysis: Statistics and Graphical	Asking Questions and Defining Problems Developing & Using Models Engage in Argument from Evidence Analyzing & interpreting data Use mathematics and computational thinking Major Projects Case Histories of different species — extinct, endangered, and	Asking Questions and Defining Problems Developing & Using Models Analyzing & interpreting data Engage in Argument from Evidence Major Projects Soil System Diagram – inputs,

Unit Name	Unit 1 Land	Unit 2	Unit 3 Atmosphere and	Unit 4	Unit 5	Unit 6 Human Population	Review & Exams
		IA Proposals	Climate Change	Natural Resources		and Urban Systems	
		The internal assessment (IA) counts as 25% of the overall grade in the course.		Summit Poster Interpretation of Graphs Feedback Loops and Climate Change Ocean Circulation and Jet Stream Global Temperature Changes (Personal Viewpoint Essay: Global Warming) Misconception Review Impacts of Climate Change Ecological Footprint	Conclusion Discussion and Evaluation of assessment and the environmental issue of choice Communication of information in a coherent and logical way The internal assessment (IA) counts as 25% of the overall grade in the course.	conservation status Design and Manage protected areas — conservation and preservation Think-Pair-Share — Types of Biodiversity compare/Contrast ecosystems and communities — Diversity Indices Hotspot data interpretation and Analysis Natural Selection/Plate Tectonics cological Time Scale — Mass Extinction Events	outputs, storages, and flows – Use Soil texture triangular graph to identify soil type and texture Sustainability of terrestrial food production systems Compare and Contrast agricultural and subsistence farming systems (use, efficiency, advantages, disadvantages, etc) Soil Conservation Measures
							IA & IB Exam Graded on IB scale by mark scheme
Level Specific Differentiation	Marietta City Schools included on the distr	· · · · · · · · · · · · · · · · · · ·	ific differentiation of lea	rning experiences for al	I Il students. Details for	I differentiation for learni	I ng experiences are

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Resources	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group	Oxford Environmental Systems and Societies Biozone Environmental Science Student Workbook Hodder Education Environmental Systems and Societies Study and Revision Guide IB ESS Schoology Group