

Pacing Guide – Environmental Science

FIRST NINE WEEKS				
Number of Weeks	Units		Topics	
3	1	Introduction to Environmental Science / The Dynamic Earth	1	Science and the Environment
			2	Tools of Environmental Science
			3	The Geosphere
			4	The Atmosphere
			5	The Hydrosphere and Biosphere
2	2	The Organization of Life	1	Defining An Ecosystem
			2	The Components of An Ecosystem
			3	Habitat
			4	Evolution
			5	Diversity of Living Things
2	2	How Ecosystems Work	1	Energy Flow In Ecosystems
			2	Biogeochemical Cycles
			3	Successions
2	2	Biomes	1	Major Biomes of the World
			2	Biomes and Climate
			3	Special Adaptations of Vegetation
			4	Global Distribution Pattern

SECOND NINE WEEKS				
Number of Weeks	Units		Topics	
1	2	Aquatic Ecosystems	1	Freshwater Ecosystem
			2	Marine Ecosystem
2	3	Understanding Population	1	Properties of Population
			2	Population Growth
			3	Carrying Capacity
			4	Species Interactions
2	3	The Human Population	1	Forecasting Population Size
			2	Demographic Transition
			3	Population Trends
2	3	Biodiversity	1	Benefits of Biodiversity
			2	Causes of Extinction
			3	Areas of Critical Diversity
			4	Conservation and Preservation of Species
1	4	Water	1	Water Resources
			2	Water Use and Management
			3	Water Pollution

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THIRD NINE WEEKS				
Number of Weeks	Units		Topics	
1	4	Air	1	Air Pollution
			2	Air, Noise, and Light Pollution
			3	Acid Precipitation
1	4	Atmosphere and Climate Change	1	Climate Change
			2	Global Warming
			3	Greenhouse Effect
2	4	Land	1	National Parks
			2	Urban and Rural Areas
			3	Land Management and Conservation
2	4	Food and Agriculture	1	Humans and Nutrition
			2	The Ecology of Food
			3	Genetically Modified Organisms
			4	World Food Problems
			5	The Green Revolution
2	5	Mining and Mineral Resources	1	The Rock Cycle
			2	Environmental Impacts of Mining
			3	Mineral Exploration and Mining
			4	Mining Regulations and Mine Reclamations
1	5	Nonrenewable Energy	1	Fossil Fuels
			2	Nuclear Energy

FOURTH NINE WEEKS				
Number of Weeks	Units		Topics	
2	5	Renewable Energy	1	Solar Energy
			2	Wind Power
			3	Biomass
			4	Water Power
			5	Geothermal Energy
2	5	Waste	1	Types of Solid Wastes
			2	Solid Waste Management
			3	Recycling and Composting
			4	Hazardous Wastes
			5	Resource Conservation and Recovery Act
3	6	The Environment and our Future	1	Environmental Effects on Health
			2	Toxicology
			3	Epidemiology
			4	Pollution from Natural Sources
			5	Pollution from Human Activities
			6	Biological Hazards
			7	Waterborne Diseases
			8	Environmental Change and Diseases
2	6	Economics, Policy and the Future	1	Economics and International Cooperation
			2	Environmental Policies in the United States
			3	The Importance of the Individual