

## Science: VI. Earth Systems

Ref	What All Students Should Know	Wetlands	Rainforest	Desert
<b>B. Processes of Systems</b>				
VI.B.1	Water is stored all over the Earth.	Wetland Types, Water Cycle, Bog Formation animation	Water Cycle	Water Availability
VI.B.2	Rocks change over time by weathering.	Mechanisms: Erosion		Landscape Formation: Weathering animation, Landforms Quiz
VI.B.4	Seasons and changes in weather affect human and animal activity and plant growth.		Seasonality	Deserts of the World (esp. continental interiors)
VI.B.5	The surface of Earth changes slowly (e.g., erosion, weathering) or quickly (e.g., earthquakes, floods, rock / mud slides, volcanic activity).	Refer to Bog Formation animations		Refer to Landscape Formation screens
VI.B.6	Water condenses, evaporates, and exists as a gas, liquid or solid on Earth and in the air.	Water Cycle	Water Cycle, Climate	Climatic Influences screens
VI.B.7	Earth's surface features are continually changing.	Bog Formation animation		Refer to Landscape Formation screens

## Science: VII. Living Systems

Ref	What All Students Should Know	Wetlands	Rainforest	Desert
<b>A. Structure/Function/Characteristics</b>				
VII.A.1	Observable characteristics of living organisms can be used to sort & group them. (Gr. 2)	Use Organism screens for examples	Use Organism screens for examples	Use Organism screens for examples
VII.A.2	Organisms differ in structure & function & have characteristics that help them survive & reproduce in different environments.	Plant & Animal Adaptations, use Organisms screens for examples	Use Organisms screens for examples	Plant & Animal Adaptation screens, use Organisms screens for examples

<b>B. Life Processes</b>				
<b>Ref</b>	<b>What All Students Should Know</b>	<b>Wetlands</b>	<b>Rainforest</b>	<b>Desert</b>
VII.B.1	Organisms go through life cycles. (gr. 2)	Use Organisms screens for examples (some with videos)	Use Organisms screens for examples	
VII.B.2	Most organisms require a variety of materials including food, water, air, & a suitable environment for survival. Animals obtain energy & nutrients from plants or other animals.	Food Web: Web Game, Organism screens	Web Game, Organism screens	Build-a-Desert, Organism screens
<b>C. Diversity</b>				
VII.C.1	Organisms can be grouped by specific structures. (Gr.2)	Use Organism screens for examples	Use Organism screens for examples	Use Organism screens for examples
VII.C.2	Some characteristics of organisms are inherited & some are acquired as a result of interaction with the environment.	Plant & Animal Adaptations, use Organism screens for examples	Use Organism screens for examples	Plant & Animal Adaptation screens, use Organism screens for examples
<b>D. Reproduction/Heredity</b>				
VII.D.1	Most offspring are similar but not exactly like their parents. (GA. 2)	Use Organism screens for examples (some with videos)	Use Organism screens for examples	Use Organism screens for examples
VII.D.3	All types of living organisms have offspring, and the similarities between parents & their offsprings become more apparent as the offspring mature.	Use Organisms screens for examples (some with videos)	Use Organism screens for examples	Use Organism screens for examples
VII.D.4	The phases in the life cycle of all living organisms are predictable, but differ from species to species.	Use Organism screens for examples (some with videos)	Use Organism screens for examples	
<b>E. Adaptation/Evolution</b>				
VII.E.1	Organisms have parts that enable them to live & survive in the world. (Gr. 2)	Plant & Animal Adaptations, use Organism screens for examples	Use Organism screens for examples	Plant & Animal Adaptation screens, use Organism screens for examples

## Science: VIII. Ecology

Ref	What All Students Should Know	Wetlands	Rainforest	Desert
<b>A. Interactions</b>				
VIII.A.1	All living organisms interact with each other and their environment.	Food Web, Food Chains, Consumers, Producers, Decomposers, Web Game, Organism screens	Entire Dependency Web section	Build-a-Desert, Organism screens
VIII.A.2	All organisms depend on one another & their environment to live and grow.	Food Web, Food Chains, Consumers, Producers, Decomposers, Web Game, Organism screens	Entire Dependency Web section	Build-a-Desert, Organism screens
VIII.A.3	People depend on other organisms and Earth's resources for clothing, shelter, and food.	Certain Organism screens: e.g. cranberry, Labrador tea, etc.	Rainforest Riches, Human Impact screens	Human Impact screens
VIII.A.4	Behavior patterns and survival of organisms result from their interactions with a specific environment.	Plant and Animal Adaptations, Organism screens	Dependency Web: Habitat, Pollination, Seed Dispersal, Ant Symbiosis, Organism screens; entire Animal section	Plant and Animal Adaptations, Organism screens
VIII.A.5	Organisms interact with each other as producer / consumer, scavenger, predator / prey, parasite / host, decomposer, etc.	Food Web, Food Chains, Consumers, Producers, Decomposers, Web Game, Organism screens	Entire Dependency Web section	Organisms, Organism Screens
VIII.A.6	Interactions between organisms and their environment contribute to continuous cycling of matter and energy.	Nutrient Cycles: Carbon, Water, Nitrogen, Phosphorus; Food Web, Decomposers	Food Web, Productivity, Soils & Decomposition	Refer to Build-a-Desert

Ref	What All Students Should Know	Wetlands	Rainforest	Desert
<b>B. Changes</b>				
VIII.B.1	All organisms, including humans, cause changes in their environments that can be either beneficial or harmful to the organisms in the ecosystem.	Endangered Wetlands: Conservation, Habitat, Pollution, Migration	Refer to Human Impact screens	Refer to Human Impact screens
VIII.B.2	Organisms that survive in an environment have developed adaptations that allow the organisms to compete for available resources and cope with the physical conditions of their environment.	Animal & Plant Adaptations, Organism screens	Organism screens	Animal & Plant Adaptations, Organism screens
VIII.B.3	Human activities can change the environment in ways that affect the health and survival of all living organisms.	Endangered Wetlands: Conservation, Habitat, Pollution, Migration	Refer to Human Impact screens	Refer to Human Impact screens
VIII.B.4	Changes in an environment, caused naturally or by humans, can be beneficial or harmful to the organisms living in that environment.	Endangered Wetlands: Conservation, Habitat, Pollution, Migration	Refer to Human Impact screens	Refer to Human Impact screens