Florida Science Benchmarks: Grade Six		DFI Fieldtrip Series			Digital Frog	Science Matrix: Cell
Benchmark code:	The student is expected to:	Wetlands	Rainforest	Desert		
Idea 6: Earth Structures						
SC.6.E.6.1	Describe and give examples of ways in which Earth's surface is built up and torn down by physical and chemical weathering, erosion, and deposition.	Erosion, Bog Formation		Landscape Formation screens		
Idea 7: Earth Systems & Patterns						
SC.6.E.7.2	Investigate and apply how the cycling of water between the atmosphere and hydrosphere has an effect on weather patterns and climate.	Water Cycle, Flooding, Groundwater	Climate, Seasonality, Water Cycle	Climatic Influences		
SC.6.E.7.5	Explain how energy provided by the sun influences global patterns of atmospheric movement and the temperature differences between air, water, and land.			Climatic Influences		
Idea 14: Organization & Development of Living Organisms						
SC.6.L.14.3	Recognize and explore how cells of all organisms undergo similar processes to maintain homeostasis, including extracting energy from food, getting rid of waste, and reproducing.					Cell Structure & Function
SC.6.L.14.4	Compare and contrast the structure and function of major organelles of plant and animal cells, including cell wall, cell membrane, nucleus, cytoplasm, chloroplasts, mitochondria, and vacuoles.					Entire CD
SC.6.L.14.5	Identify and investigate the general functions of the major systems of the human body (digestive, respiratory, circulatory, reproductive, excretory, immune, nervous, and musculoskeletal) and describe ways these systems interact with each other to maintain homeostasis.				Anatomy: Human Comparisons & Interacting Systems	

Florida Science Benchmarks: Grade Seven		DFI Fieldtrip Series			Digital Frog	Science Matrix: Cell
Benchmark code:	The student is expected to:	Wetlands	Rainforest	Desert		
Idea 6: Earth Structures						
SC.7.E.6.2	Identify the patterns within the rock cycle and relate them to surface events (weathering and erosion) and sub-surface events (plate tectonics and mountain building).			Refer to Landscape Formation		
SC.7.E.6.6	Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.	Endangered Wetlands section	Endangered section	Human Impact section	Ecology: Environmental Concerns	
Idea 15: Diversity & Evolution of Living Organisms						
SC.7.L.15.2	Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.		Biodiversity screens			
SC.7.L.15.3	Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.		Biodiversity screens			
Idea 17: Interdependence						
SC.7.L.17.1	Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.	Entire Food Web section	Refer to Food Web Game	Refer to Build-a-Desert game		
SC.7.L.17.2	Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.		Study: Dependency Web section & Animal section	Animal Adaptations		
SC.7.L.17.3	Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.	Refer to Web Game	Refer to Food Web Game, entire Study section	Build-a-Desert		

Florida Science Benchmarks: Grade Eight		DFI Fieldtrip Series			Digital Frog	Science Matrix: Cell
Benchmark code:	The student is expected to:	Wetlands	Rainforest	Desert		
Idea 18: Matter & Energy Transformations						
SC.8.L.18.1	Describe and investigate the process of photosynthesis, such as the roles of light, carbon dioxide, water and chlorophyll; production of food; release of oxygen.	Photosynthesis screens				
SC.8.L.18.3	Construct a scientific model of the carbon cycle to show how matter and energy are continuously transferred within and between organisms and their physical environment.	Carbon Cycle, refer to Food Web	Refer to Web Game	Refer to Build-a-Desert		