Science Unit 2: Biomes

	non-living components in a given biome? nd on one another and on non-living
,	etween producers, consumers and
 A biome is a complex comment There is a variety of bioment There are living and non-limited Living things have specified There is a relationship beto decomposers in a biome. Individual parts of organism another. 	imunity of plants and animals in a region. es on the earth. ving components in biomes. clife cycles, structures, and behaviors. ween producers, consumers, and ms or ecosystems can influence one clies changes over time in response to its
living, classify, physinvertebrate, kingdocommunity, region, pool Biome: tundra (alpine (e.g. forest (rain, tropical grassland, marine (e.g. forest) (rain, tropical grassland, marine (e.g. forest) (rain, tropical grassland, marine (e.g. forest) (rain, tropical grassland, marine (e.g. food Web): Tood Web: Organisms:	habitat, niche, organism, living, non- sical characteristics, vertebrate, om, diversity, interdependency, climate, precipitation, land forms, vernal Mt. Katahdin), arctic), taiga, desert, temperate, deciduous, coniferous), temperate, tropical), wetland ducer, consumer, decomposer, diet eproduction), behavior (instinct, learned,

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Essential Skills	 Identify some living organisms in a biome. Identify the life cycle, behavior, and structure of various organisms in a biome. Compare and contrast organisms in biomes. Explain advantages and disadvantages gained when members of a species are different in their characteristics and behavior. Explain how changes in an organism's habitat can influence its survival. Give examples that show how individual parts of organisms, ecosystems, or man-made structures can influence one another. Explain why it can be important for some members of a species to have different characteristics and behaviors.
Related Maine Learning Results	Science A. Unifying Themes A1.Systems Students apply the principles of systems, models, constancy and change, and scale in science and technology. a. Give examples that show how individual parts of organisms, ecosystems, or man-made structures can influence one another. E. The Living Environment E1.Biodiversity Students compare living things based on their behaviors, external features, and environmental needs. b. Describe the changes in external features and behaviors of an organism during its life cycle. E2.Ecosystems Students describe ways organisms depend upon, interact within, and change the living and non-living environment as well as ways the environment affects organisms. a. Explain how changes in an organism's habitat can influence its survival. b. Describe that organisms all over the Earth are living, dying, and decaying and new organisms are being produced by the old ones.

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Related Maine Learning Results	E3.Cells Students describe how living things are made up of one or more cells and the ways cells help organisms meet their basic needs. a. Give examples of organisms that consist of a single cell and organisms that are made of a collection of cells. b. Compare how needs of living things are met in single-celled and multi-celled organisms. E5.Evolution Students describe the fossil evidence and present explanations that help up understand why there are differences among and between present and past organisms. a. Explain advantages and disadvantages gained when some individuals of the same kind are different in their characteristics and behavior.	
Sample		
Lessons	Draw and include organisms you would typically find in it.	
And	 Research a biome and report your findings. 	
Activities		
Sample	List organisms you would find in a given biome and show	
Classroom	interdependence.	
Assessment Methods	 Compare two biomes showing similarities and differences. 	
Sample Resources	 Publications: Deserts – Peter Murray Grasslands – Malcolm Penny Life in the Polar Lands – Monica Byles Mountains - Peter Murray Oceans – John Woodward Rainforests – Tony Allen Taiga - Edward Ricciuti Temperate Forests – John Woodward Wetlands – Duncan Brewer What Is A Biome? - Bobbie Kalman Videos: Wetland Biomes 	
	 Wetland Biomes: Essential and Endangered 	