21st Century Themes/Skills:

	DCI (Disciplinary Core Ideas)	Science and Engineering Practices	Cross Cutting Concepts	Student Learning Objectives	Differentiated Activities (Consider the 5 Es)	Resources/Technology	Formative Assessments	Benchmark Assessment
	LS2.A: Interdependent	Practices:	Cause and Effect	SWBAT: Sort objects as living or non	ENGAGE 1:	A1=HYPERLINK("https://drive.	Have students complete the	
1	Relationships in LS4.D:	.Planning and Carrying Out	 Events have causes that 	living.		google.com/open?	assessment. Encourage students to	
1			generate observable patterns. (2-		can't use different senses.	id=0BwzEDu0zDzEqQ2RMWlNzLU		
	 There are many different 	 Plan and conduct 	LS2-1)		Ask students what they think they would observe in their own backyards	taMnc","Unit 1 Resources")	as well as what the answer is.	
	kinds of living things in any area,				or another familiar spot, such as the school playground or nearby park,			
	and they exist in different places	produce evidence to answer a	 The shape and stability of 		using different senses.		Have students use the Board Builder	
	on land and in water. (2-LS4-1)	question. (1-PS4-1),(2-LS2-1)	structures of natural and	animals.	Guide students through Hands-On Activity. Throughout the activity,		tool to create a presentation about	
1	Ecosystems		designed objects are related to		guide students to make connections between what they are observing and		how to care for a specific plant or	
			their function(s). (2-LS2-2), (K-2-					
1	light to grow. (2-LS2-1)	collect data that can be used to	ETS1-2)	that they don't really have.	Ask: What evidence do you have that X is living/nonliving?		include what the plant or animal	
	Ecosystems Plants depend on water and	 Make observations 	designed objects are related to their function(s). (2-LS2-2), (K-2-	SWBAT: Recognize when stories give attributes to plants and animals	Guide students through Hands-On Activity. Throughout the activity, guide students to make connections between what they are observing and whether or not what they are observing is living. Use the term evidence . Ask: What evidence do you have that X is living/nonliving?		tool to create a presentation about how to care for a specific plant or animal. The presentation should include what the plant or animal	

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 Plants depend on animals for pollination or to move their seeds around. (2-L32-2-2) ETS1.B: Developing Possible Solutions Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (secondary to 2-L32-2) ETS1.A: Defining and Delimiting Engineering Problems A situation that people want to change or create can be approached as a problem to be solved through engineering. (K-2 ETS1-1) 	make comparisons. (2-154-1) Developing and Using Models Developing and Using Models proposed object or tool. (2-152-2) Asking Questions and Defining Problems - Ask questions and Defining observations to find more information about the natural and/or designed world(2). (K-2- ETSI-1) - Define a simple problem that can be solved through the development of a new or improved object or tool. (K-2- ETSI-1)	Connections to Nature of Science Scientific Knowledge is Based on Empirical Evidence		 (Consult the 5 LS) (Consult the 5 LS		needs, why they have these needs, and what will happen if the needs are not met.	

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	Practices			(Consider the 5 Es) EXPLANE : Have students use the evidence they collected in the Explore sessions to complete the "My Claim" and "My claim is true because" sections of the Scientific Explanation student sheet. Begin by giving students a few minutes to think on their own and write down their claims (answers to the question). Then have students get together in groups of 2–4 to share their claims. Come together as a class to complete the Scientific Explanations. Make sure students are able to explain how they know or why they think their claim is true based on the observations they have made or text, video, and other resources they have explored. ELABORATE: Have students complete the Life Cycles portion of the Fun-damental to introduce the idea of reproduction as a need of living things. My do living things need to reproduce? What would happen if they did not? Have students watch the video segment and then discuss how the girl made a table to organize data about different types of pets. Divide students into groups and have each group choose a pet. Groups should research the needs of the pet and make a list of all the supplies they would need to take care of it for a month. Have students use the Internet to find out how much the supplies will cost, and add them up to find the total cost. Have groups present the total estimated cost of caring for the animal for a month, and then compare costs using a picture or bar graph. Extend the activity by having students present arguments, based on evidence, about which animals would be best to have as pets in the classroom. Arguments should be based on the animals' needs and the cost or ability to meet its needs. Read with story and what is make-believe? Ask students to consider: living vs. nonliving things food sources shelter. Finally, have students write their own stories or poems about living or nonliving things that a edifferent from those in real-life. Students can record their stories or poems and illustrate them.	Video Segment: Using More Than. One Sense at a Time Video Segment: What Plants Need to Grow			
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