

Essential Question(s): What do plants need to grow? How can we help plants grow?				
Objective:	Materials/Resources	Essential Vocabulary		
LS2.A: Interdependent Relationships in Ecosystems Plants depend on water and light to grow. (2-LS2- 1) Plants depend on animals for pollination or to move their seeds around. (2- LS2-2)	 empty 2-liter soda bottle small plants (ivy is a good choice) small rocks or stones (aquarium rocks) Soil³ plastic Spoons, AG IN THE BAG[™] Classroom Kit water seeds gallon-sized Ziploc bags play sand large shoe box black sharpie markers Plants Need graphic organizer Plant Needs Lab Soda Bottle Terrarium 	 air sunlight water space soil nutrients terrarium 		
Learning Experience				
Background Information:	 Engage: Activating Strategy: Plant Needs Introduce the lesson singing the song <u>The Needs of a Plant</u> Students complete the Plants Need graphic organizer. 			

 Student Misconceptions: Some students may misclassify a mushroom as a plant because of the stem. Students may not consider trees to be plants because they tend to think of plants as things that grow in gardens. This can be the same for weeds. Students may think that sunlight is helpful but not necessary. This may be due to their lack of knowledge of sunlight's role in photosynthesis. Many young children think the role of sunlight is for warmth. Students may give plants human traits (eating, drinking, breathing). 	 group, small group, or After studying viseed growing end grow without or This lab can take planting lima be Students composite the students composite the second students composite the second students transpection log After several we and Further Students transpection log After several we and Further Students transpection log After several we and Further Students transpection log Students transpection log Introduce the second students will us terrariums. Evaluate: Summarizite Give each students will us terrariums. Evaluate: Summarizite Give each stude about the lesson Put all question Students pair us the answers on the not know.) Once complete Pull out as mariting answers. The students read about. 	what plants need to grow, students will conduct a experiment. Students will investigate how plants ne of the basic needs (sunlight, water, air, soil). Ke several days. You can speed the process by eans that have been soaked in water. Nete hypothesis, needs matrix, and observation, b sheet. Servation Logs ew weeks, students should complete the gs for the Grow a Plant Lab. eeks, students should complete the Conclusion udies section of the lab. colant their "best" plant to the Soil ³ growing pouch. g: Soda Bottle Terrarium tudents to the word terrarium (a self-contained ludes plants) se the Soda Bottle Terrarium directions to build ng Strategy: Fish Bowl Summarizer ent an index card. Each student writes a question on or unit topic. (NO NAME ADDED) is into a jar (fish owl). p and take two questions from the fish bowl. irs discuss the question and write possible back of the card. (It can be left blank if they do ad, all index cards go back into the fish bowl. hy cards as time permits. Read the question and espond to the answer with a thumbs up or thumbs inswer is not given, have the class decide on the		
	Different	ion Stratagios		
Differentiation Strategies				
Virtual Conn	ections	STEAM Opportunities		
Plant Songs Grow Your Own Plant		 Design and create a water sprinkler for your garden. Design and create a planter from recycled 		
		matoriala		

From Seed to Fruit

materials.

Requires an account: <u>Gizmos, Growing</u> <u>Plants</u>		
Preschool: Get Growing		
Assessment(s) Options:		
Teacher Reflection: (Next steps?)		
Resources: https://www.youtube.com/watch?v=dUBIQ1fTRzI		