Student Exploration: Forest Ecosystem

*Vocabulary: consumer, decomposer, inorganic, organic, organism, population, producer
Please locate and read the Vocabulary Sheet under LESSON INFO to understand the necessary vocabulary for this lesson.

Get the Gizmo ready:

• Click Reset.

Activity A:

I	rees	Select the FOREST tab.					
Qu	estion: What role	do trees play in the forest?					
<u>1.</u>	Form hypothesis: \	ney need to grow?					
<u>2.</u>	<u>Predict</u> : Based on your hypothesis, how will the tree population change if ALL other organisms (deer, bears, and mushrooms) are removed from the forest?						
<u>3.</u>		ALL organisms except trees. Click Advance diction correct? Explain what you found.	e year a few times and select the DATA				
org and ino	ganic materials are s d ammonia, are call Some living thi	at contain carbon and are produced by living sugar, blood, protein, and fat. Other materia	ls, like water, carbon dioxide, oxygen, panic materials they need (like food) from				
Do	your results show	you that trees are producers or consumers?	Explain.				
	Analyze: Click the ar a few times. Sele	FOREST tab. Click the plus (+) button for n ect the DATA tab.	nushrooms several times. Click Advance				
Но	w did adding mushi	rooms affect trees?					

Bears

Get the Gizmo ready:

• Click Reset.





Question: How do bears get the nutrients they need to live?

1.	Explore & Form Hypothesis: Using the Gizmo, try to figure out what bears depend on for nutrition.								
	How do bears	s get the energy and nutrients they need	?		_				
2.	. Predict: Based on your hypothesis, which population(s) would be hurt if bears were added?								
	Then go forward	t. Click Advance year a couple times. A a couple more years. Select the DATA to attend the transfer of the t	ab.	·					
4.	I. <u>Classify</u> : Are bears producers or consumers? Explain your reasoning.								
Activity C: Mushrooms		Get the Gizmo ready: Click Reset. Select the FOREST tab (if necessary).							
1.	Explore & Form I	nushrooms get the nutrients they need by the stand edge their food?	xplore mushrooms.						
 Predict: Based on your hypothesis, how will the mushroom population change when other organism are added to the forest? Fill in the chart below with your predictions. Then use the Gizmo to check actual effect. 									
	Change	Predicted effect on	Actual e	effect on					

Change	Predicted effect on mushroom population	Actual effect on mushroom population
Trees added		
Deer added		
Bears added		