Human Impact



Vocabulary:

System: A set of things working together in an interconnecting network. Ecosystem: A community of organisms interacting with each other and with the nonliving environment.

Part 1. Forest Ecosystem Model

Ecosystem Model Terms:

Home Range: Coned off section of the playground Deer Population: Amount of Ziploc bags held by students Deer Casualties: Amount of Ziploc bags on the ground

Ecosystem Model Rules:

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- One year equals one minute.
- Deer food is represented by pasta. •
- Deer that eat 5-10 pieces of pasta, in one year, live and have one offspring.



Year	Number of Deer at Start of Year	Number of Deer that Survived	Explanation
1			
2			
3			
4			



1.	Year 2, started	with	deer	and	survived. The number of deer in
	that year inc	reased	stayed the same Circle One	decreased	because
2.	Y ear 4 , started	with	deer a	and	survived. The number of deer in
					because
3.					
4.	Do the parts of	the eco	system affect each	other? (Circle	e One) Yes No
Part 2	: Observing Hu	uman Ir	npact		
investi		t two m	assigned an ecosys aps of the same loo d.		
5.			our group assigned		
6.					the different land, water, and plant
7.	What parts of y	our eco	system changed (liv	ving and nonl	iving)?
8.	The changes to	the eco	system during the	given time pe	riod were: Positive Negative
9.	What human ad	ctivity o	r activities caused t	hese changes	?
		**	As a class review h	uman impact	vocabulary.**
10	•		n your teacher. Wri cosystem	te the followi	ng on your post-note:
		•	(ies) that impacted	the ecosyste	m

c. Indicate with a + or – if it was a positive or negative change

Be prepared to share this information with the class and place the post-it note on the correct location on the world map.

11. For each location decide which of the following categories influenced the observable changes and/or the environment. Mark each box with a (+) for a positive change and a (–) for a negative change. Then put the letter next to the location name on the world map below.

Location	Deforestation	Pollution	Resource Extraction (e.g.: mining)	Land Development	Climate Change	Increasing Human Population
A. US: New Mexico						
B. Japan						
C. US: Alaska						
D. Kenya						
E. Brazil						
F. US: California						
G. US: Virginia						
H. Australia						
I. Romania						
J. US: New York						



Part 3: Predicating Human Impact:

12. Look at the map of Maui. The white areas represent cities known as urban areas. Make a claim about how people have influenced the natural system in Maui.



(Claim) We think people have _____

etween	and		we saw	
Date		Date		

13. Draw a model of Maui Island with the changes you predict will happen to the island's ecosystem if the population doubles. Shade the populated areas with pencil and color in the forested areas green.



14. Explain your drawing:_____



