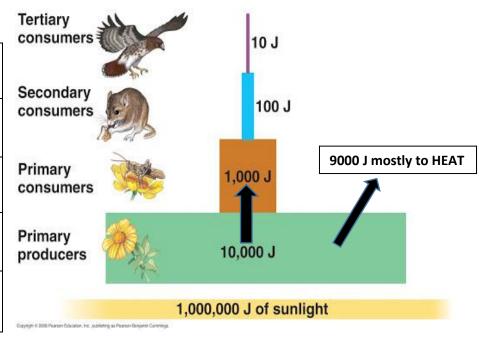
Ecology Elevator

Name:	Date:	
	TEKS to Know:	
11B investigate	e and analyze how organisms, populations, and communities respond to external factors	
	the role of microorganisms in both maintaining and disrupting the health of both organisms	
	how events and processes that occur during ecological succession can change populations and	
•	relationships, including predation, parasitism, commensalism, mutualism, and competition	
12C analyze th	e flow of matter and energy through trophic levels using various models, including food ebs, and ecological pyramids	
	that long-term survival of species is dependent on changing resources that are limited	
	he flow of matter through the carbon and nitrogen cycles and explain the consequences of	
	e how environmental change can impact ecosystem stability	
	11B): An organism is an individual. Population refers to number of organisms of	
	PECIES. Community tracks the populations of ALL SPECIES in an area.	
7710 <u>071712 01</u>	COLCO . SOMMANY THAT AND THE POPULATIONS OF THE COLCO	
<u>Match the le</u>	vel of organization with the impact (Individual, Population, and Community).	
1) A D = a+	Durance built on the of a day of males	
	Buy was built on top of a den of moles:	
	tering hole on the savannah dried up:	
 A Cypre 	ess tree that was home to a Great Horned Owl was cut down :	
Bare Bones (11C): Bacteria play a key role in "Fixing" Nitrogen. 78% of the air we breathe is		
Nitrogen, but	we cannot use it in that form. That's why bacteria convert the Nitrogen in the	
air into more	usable forms (NH3, NO3, and NO2) that are stored in plants.	
1) What k availab	key organism is responsible for making Nitrogen we need for DNA and Proteins	
Bare Bones (Types of Succession	
rimary	First type; starts with <u>BARE ROCK</u> . Lichen is the pioneer species.	
Secondary	Second type; always has <u>SOIL</u> . Simple grasses and shrubs usually pioneer area.	
,	kind of disaster would require Primary succession?	
•	kind of disaster would require Secondary succession:	
	12A): Three types of Symbiosis: 1) Parasitism $+/-$, 2) Commensalism $+/0$, and	
	+/+. Match the scenarios below with their respective type of symbiosis:(P, C , M)	
	swam across a stagnant pond and is now covered in leeches:	
2) The same I	ion attracts birds which eat the leeches off its hide:	
3) The birds l	leave behind a residue which microorganisms eat:	

Bare Bones (12C):

What % of energy goes to the next trophic level?
<u>CIRCLE</u> the organism level that has the most energy:
Are primary consumers carnivores or herbivores?
How much energy (J) gets wasted from Primary Producers?
In what form does the energy get wasted?



Bare Bones (12D): Limiting Factors and Carrying Capacity

We did an "Oh Deer" activity to model these two terms. When the number of deer was too high (exceeded Carrying Capacity) the number of resources was low because the deer consumed all the resources (Limiting Factors).

Question: Can populations go on growing forever? Why or Why not?

Bare Bones (12E): Disrupting the Nitrogen and Carbon Cycles

Disruption Types			
Carbon Cycle	Nitrogen Cycle		
1) Burning Fossil Fuels - Global Warming	 Burning Fossil Fuels - Smog/Acid Rain 		
2) Deforestation - Fewer photosynthesizers	2) Overuse of fertilizer - Algae Blooms		

Question: Do humans have an effect on the Carbon and Nitrogen Cycles? Explain:

<u>Bare Bones (12F): Explaining Ecosystem Stability</u>

<u>Question:</u> If a forest fire kills all of the wild flowers and a lot of the grass, how would that impact the community of that biome?

