Amoeba Sisters Video Recap: Food Chains, Food Webs, and an Introduction to Biodiversity

1. For the **food chain** on the right, please draw in three arrows to represent the correct direction of energy flow. Then use this food chain to answer the b









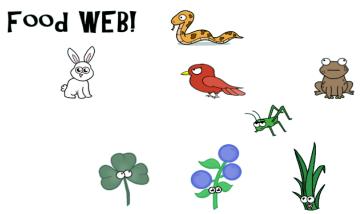
elow questions.	A.	\mathcal{M}	2 1 1	*05.00*		
2. For the grass , please circle any of the belo alphabetized words in this box that correctly describe this organism. Note: You will have more than one word circ	3. For the frog , please circle any of the below alphabetized words in this box that correctly describe this organism. Note: You will have more than one word circled.					
Autotroph Proc	ducer	Autotroph			Producer	r
Decomposer Seco	ondary Consumer	Decompos	er		Seconda	ry Consume
Heterotroph	iary Consumer	Heterotrop	oh			, Consumer
Primary Consumer		Primary Co	onsumer			
4. Please arrange the organisms from the foenergy pyramid. After drawing your energy with the labeled organisms inside, please lab following words: 1st trophic level, 2nd trophic trophic level, and 4th trophic level.	food chain role. Descr	is an organism i although it has ribe an importa ngi and bacteria	s a very impo nt role of org	rtant	Fungus	

7. Circle any applicable words below that could correctly identify the organism above: Decomposer Autotroph Heterotroph Producer

5. If the grass in this example had 25,000 Kcal of energy, approximately how much would you expect of that energy to be stored in trophic level 4? _____Kcal



8. For the **food web** below, please draw in **arrows** to represent the correct direction of energy flow.



Please use the above food web to determine whether there is an *increase*, *decrease*, or *no change* for each organism type in the chart below based on the given scenario. When filling in the empty boxes, please explain why you determined an increase, decrease, or no change. Two boxes have been filled in for you!

Scenario	Frogs	Grasshoppers	Snakes	Producers
There are types of pathogenic fungi that can attack living amphibians (such as frogs). One of these types of fungi is known as the Chytrid fungus. For each of the following organisms in the table, describe how each organism population might be affected by a Chytrid fungus infestation.	Decreasing due to infestation of Chytrid fungus, which is harming frog population.	9.	10.	11.
Grasshoppers can be extreme pests for farmers as they can damage crops. For each of the following organisms in the table, describe how each organism population might be affected by a significant grasshopper population increase such as a visiting locust swarm.	12.	Increasing due to visiting locust swarm.	13.	14.

^{15.} Which of the following contributes more to **ecosystem sustainability**: the food web on this page or the food chain on the other page? Explain your answer in terms of **biodiversity**.

