

Ecology Pre-Assessment

(Total Points: ___ / 5)

Standards Addressed: CA.MS-LS2-2, CA.MS-LS2-3

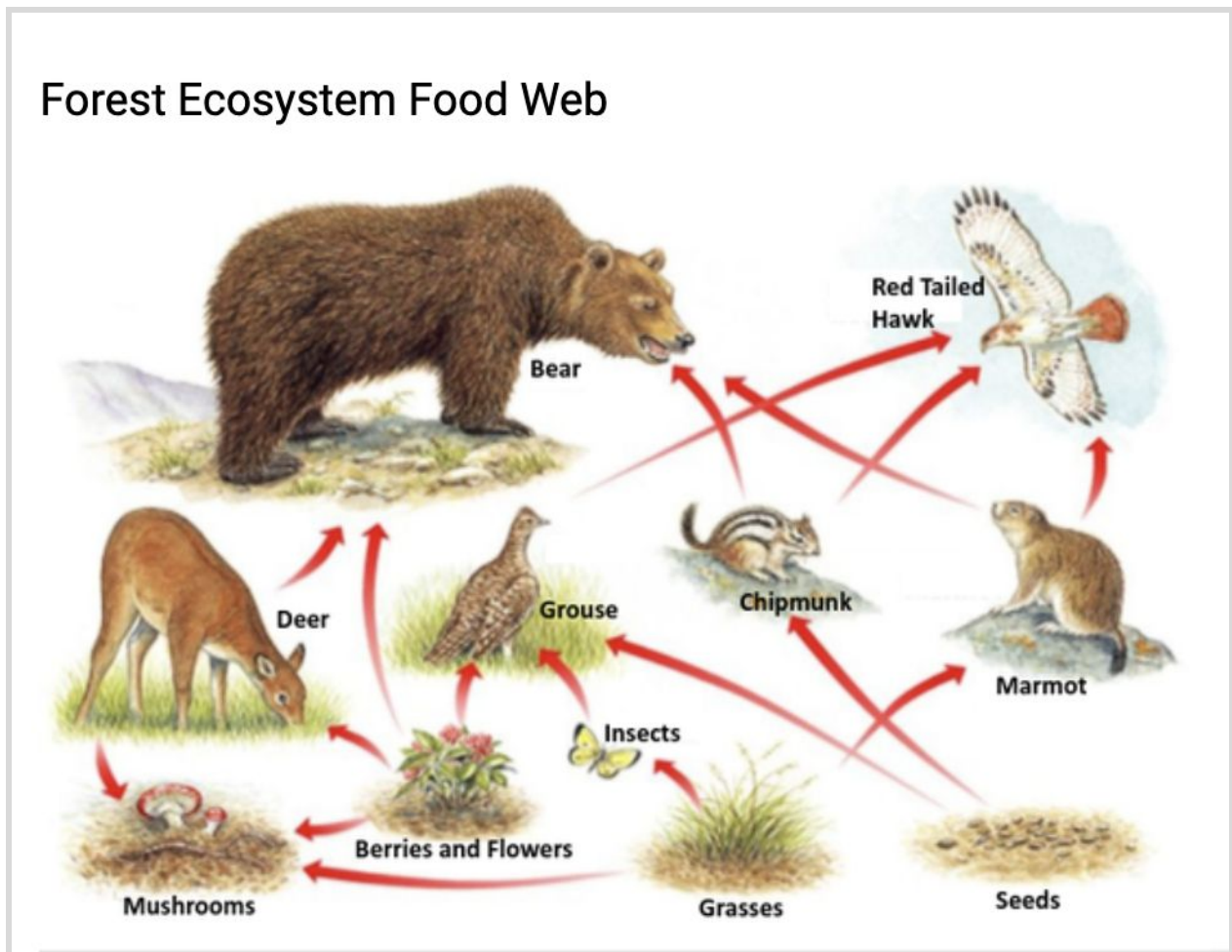
Name _____

Date _____ Period _____

Food Web

CA.MS-LS2-3

The picture below shows a forest ecosystem food web.



1. What do the arrows represent in the forest ecosystem food web?
 - a. The arrows represent what consumes/eats what.
 - b. The arrows represent the flow or transfer of energy in an ecosystem.
 - c. The arrows represent the predators and producers.
 - d. The arrows represent the order the organisms will go extinct.

2. What is the original source of all energy in an ecosystem?
- Animals
 - Plants
 - Decomposers
 - The Sun
 - Glucose

Using the food web, place the following flow of energy in order.

Match the letter to the correct process to complete the model.

	A	B	C	D
	1st	2nd	3rd	4th
3. The sun provides the initial energy.	A	B	C	D
4. When an organism eats the plants, such as a marmot, the energy is then transferred to them.	A	B	C	D
5. The plants absorb the sun's energy to grow.	A	B	C	D
6. Then the energy is transferred to the hawk when it consumes the marmot.	A	B	C	D

7. Why is competition among organisms a sign of a healthy ecosystem?
- Competition among organisms is NOT a sign of a healthy ecosystem.
 - Competition among organisms makes one population become overpopulated while the others go extinct.
 - Competition among organisms saves natural resources.
 - Competition among organisms helps maintain a steady number of organisms and prevents any organism from becoming overpopulated.
8. Which two of the following describe a change to an ecosystem that would lead to an increase in competition among organisms living in the same ecosystem?
- More resources become abundant in the area.
 - Deforestation would destroy a habitat, which would mean the same number of organisms would have access to fewer resources.
 - A shortage of water such as in a drought would create less resources.
 - A few species in the environment go extinct, leaving the others with no competitors in the area.