

Learning Target: I can explain how energy is transferred through food chains, food webs, and energy pyramids



Food chains, Food webs, and Energy pyramids video notes

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1. The laws of matter and energy state that matter and energy cannot be _____, but can be _____ from one form to another.
2. What is the difference between food chains and food webs? _____

3. Food chains combine into food webs because most organisms _____

4. Why is the sun the ultimate source of energy for food chains and food webs? _____

5. What does the following food chain start off with? _____



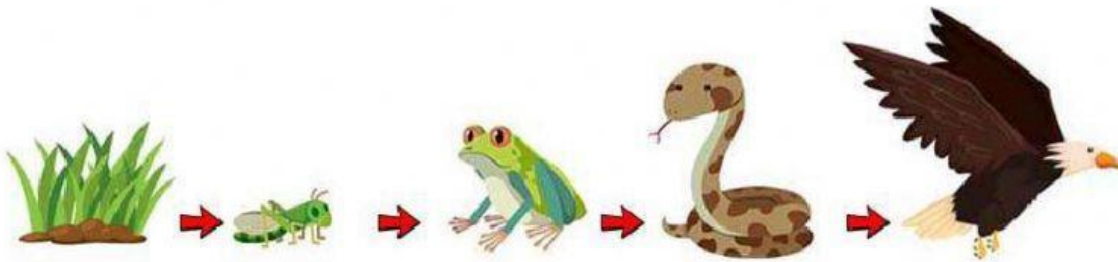
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6. What do the arrows on a food chain and food web show? _____

7. How much energy does each organism up the food chain receive? _____ Why do organisms only receive this small amount of energy? _____

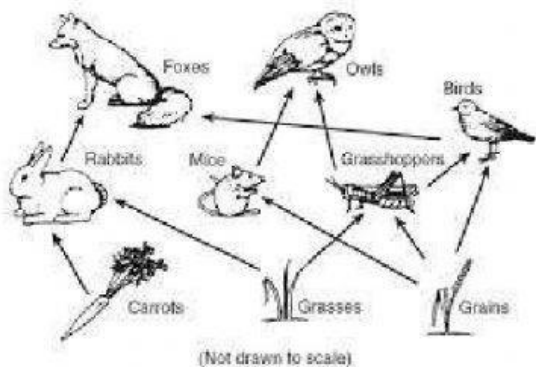
8. Type in the amount of energy each organism receives as you go up the following food chain:



9. Why must organisms continue to eat? _____

10. Why do producers have 100% of the energy in a food chain or food web? _____

11. Type in the amount of energy each level on the food web below would receive.



12. What would happen to the rest of a food web or food chain if primary producers were removed? Explain why. _____

13. Why are the foxes and owls called top tertiary consumer in the food web above? _____

14. How does energy transfer to and from the grasshopper in the food web above? _____

15. How does energy transfer to and from the rabbit? _____

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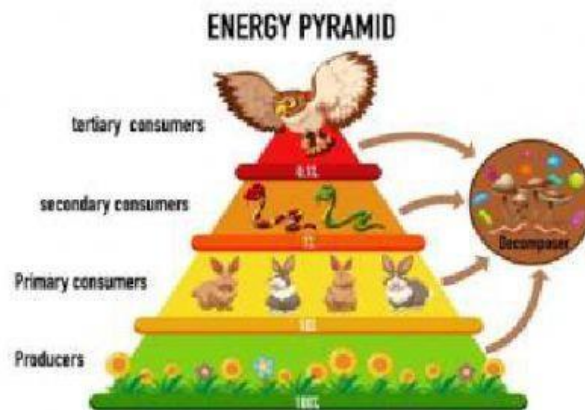
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16. What are energy/ecological pyramids? _____

17. What happens to the amount of energy transferred as you go up an energy pyramid? _____

18. What eventually happens to all organisms? _____

19. What do decomposers do? _____



Check for Understanding: Use the diagram above to answer the following questions:

1. Which organisms receive the most energy? _____

2. Which organisms receive the least energy? _____

3. Which organisms have to consume other organisms to survive? _____

4. Which organisms do not depend on other organisms in order to survive? _____

5. Which organisms are herbivores? _____

6. Which organisms are carnivores? _____

7. What is being transferred as you move up the energy pyramid? _____

8. Why do the % numbers get smaller as you move up the energy pyramid? _____

9. What do you think would happen to the populations of all of the other organisms if you were to remove rabbits from the energy pyramid? _____

10. What do all of these organisms have in common? _____

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