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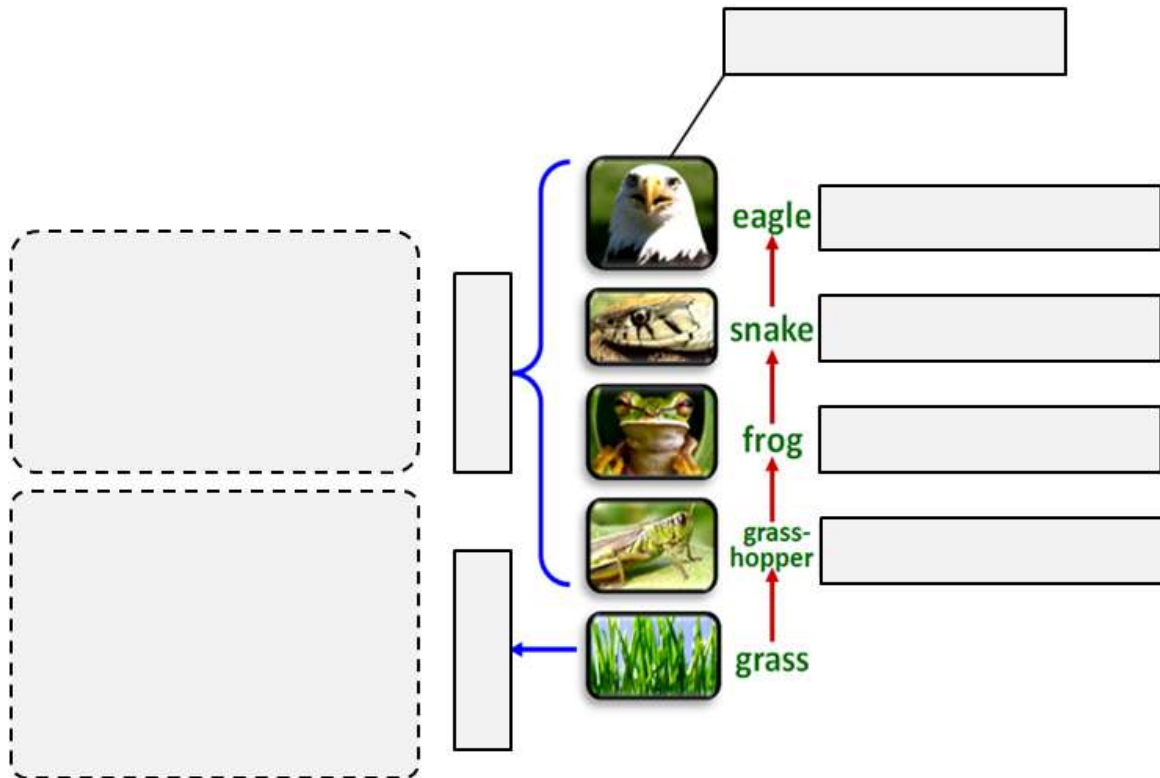
Date: _____

FOOD CHAINS, TROPHIC LEVELS AND ECOLOGICAL PYRAMIDS

POWER POINT WORKSHEET

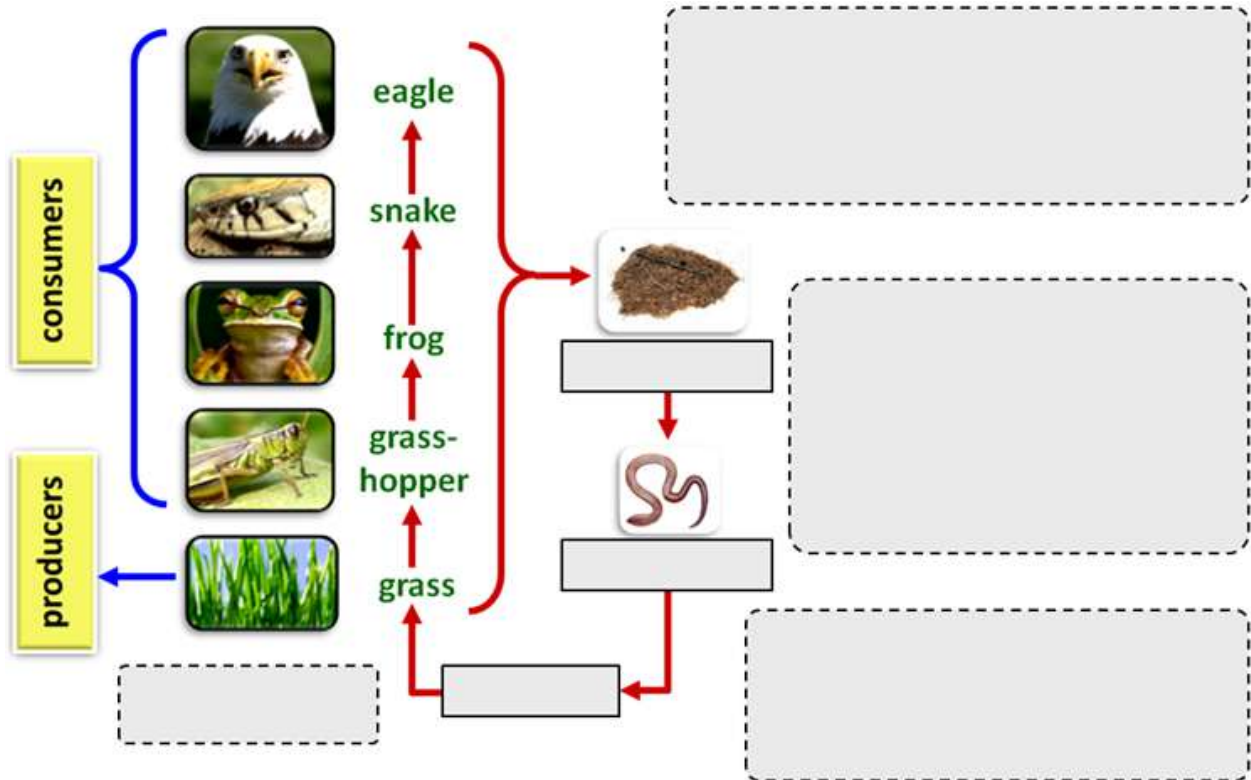
FOOD CHAINS

1. What is a **food chain**?
2. What is the **source of energy** for most food chains?
3. What does the **tip of an arrow** in a food chain point to?
4. **LABEL DIAGRAM:** Label and write descriptions on the following diagram and answer the questions below.



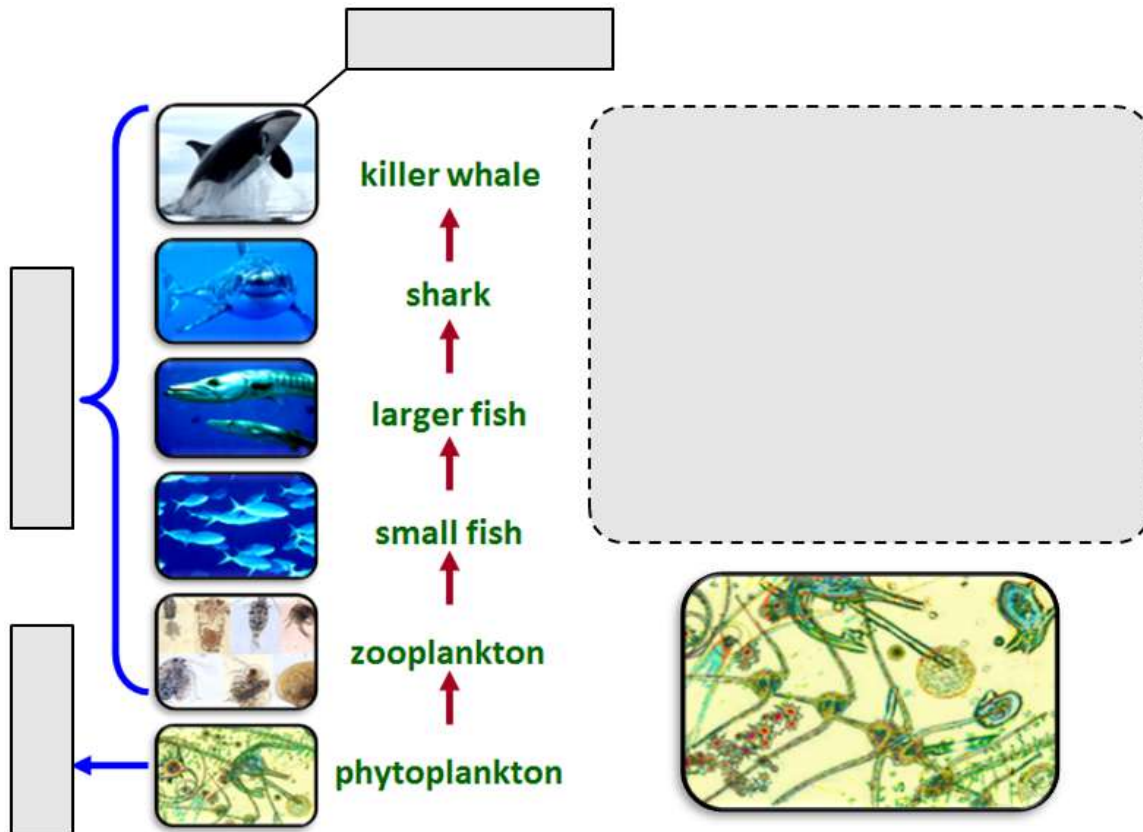
- THINK** What is the main difference between a producer and a consumer?
- THINK** What is the main difference between a primary consumer and a secondary consumer?
- THINK** Name two other organisms you think are top carnivores in other food chains.

5. **LABEL DIAGRAM:** Label and write descriptions on the following diagram and answer the questions below.



a) **THINK** What would happen if there were no decomposers?

6. **LABEL DIAGRAM:** Label and write descriptions on the following diagram and answer the questions below.



a) **THINK** What is the difference between the term **terrestrial** and **aquatic**?

b) **THINK** What differences are there between **terrestrial producers** and **aquatic producers**?

7. Why don't **hydrothermal vent food chains** have photosynthetic producers to form the base of their food chains?

8. What organisms form the base of hydrothermal vent food chains and how do they get their energy?

HUMANS AND FOOD CHAINS

9. Where would humans be on any food chain that includes them?

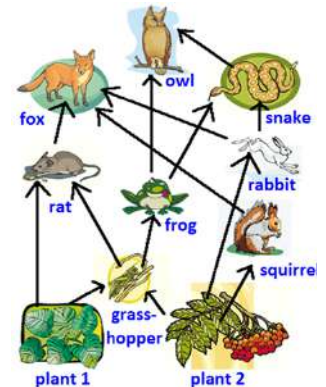


10. In which situations are humans **primary consumers**?

11. In which situations are humans **secondary consumers**?

FOOD WEBS

12. What is a **food web**?

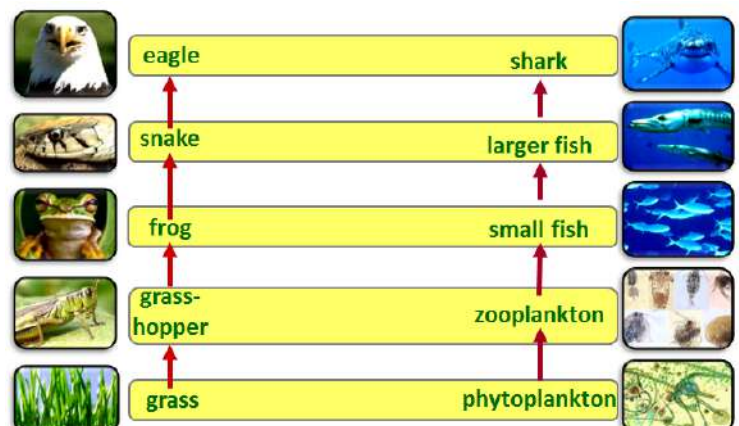


TROPHIC LEVELS

13. What is a **trophic level**?

14. What organism occupies the first trophic level in **terrestrial** food chains, and what organism occupies the first trophic level in **aquatic** food chains?

15. **LABEL DIAGRAM:** Label the diagram on the right.



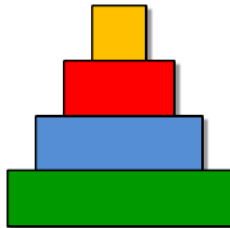
16. When energy is transferred up trophic levels ____% of it is passed on and used to build _____ and to fuel _____, while ____% of it is lost in the form of _____ and _____.

ECOLOGICAL PYRAMIDS

17. What are *ecological pyramids*?

18. What is a *pyramid of energy*?

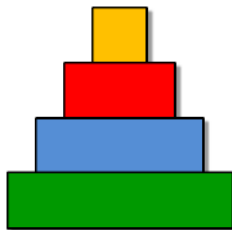
19. What is always true about a pyramid of energy?



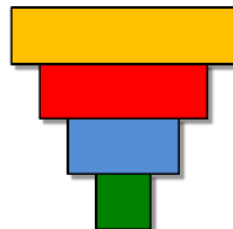
Pyramid of Energy

20. What is a *pyramid of biomass*?

21. How is a pyramid of biomass different *on the land* versus *in the water*?



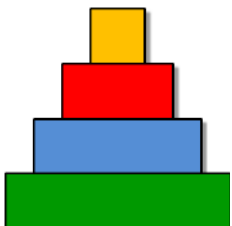
*Pyramid of Biomass
on Land*



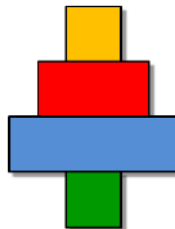
*Pyramid of Biomass
in the Water*

22. What is a *pyramid of numbers*?

23. In which situation would you get *Pyramid of Numbers A* and in which situation would you get *Pyramid of Numbers B*?



Pyramid of Numbers A



Pyramid of Numbers B



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