Energy through Ecosystems

Direction: Draw arrows between the organisms to show how energy moves through this food chain. Write producer, herbivore, or carnivore under each organism.

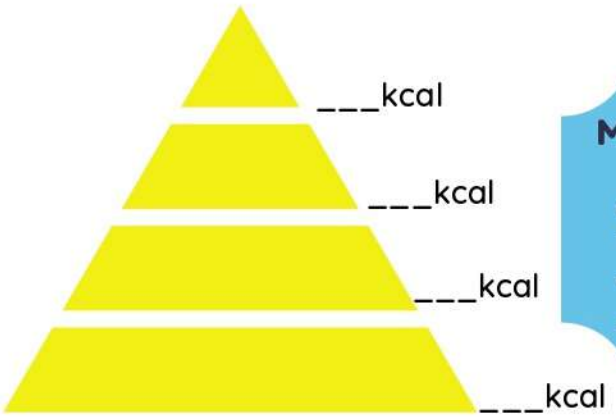
_____

_____

_____

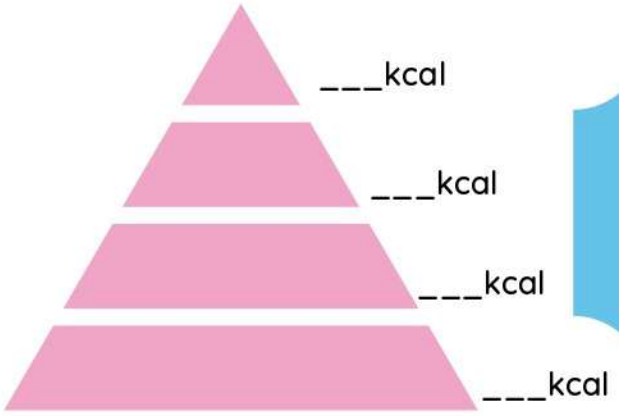
_____

Direction: Place the organisms in each food chain into the proper location on the energy pyramid. Next is to complete the pyramid and fill in the organisms and energy amounts on the pyramid.



Marsh Grass → Grasshopper → Shrew→ Marsh Hawk

A. There is 3,500 kcal available for the 1st trophic level. There is _____ kcal available for the 2nd trophic level. There is _____ kcal available for the 3rd trophic level. There are 3.5 available for the 4th trophic level.



Phytoplankton → Shrimp → Snapper → Shark

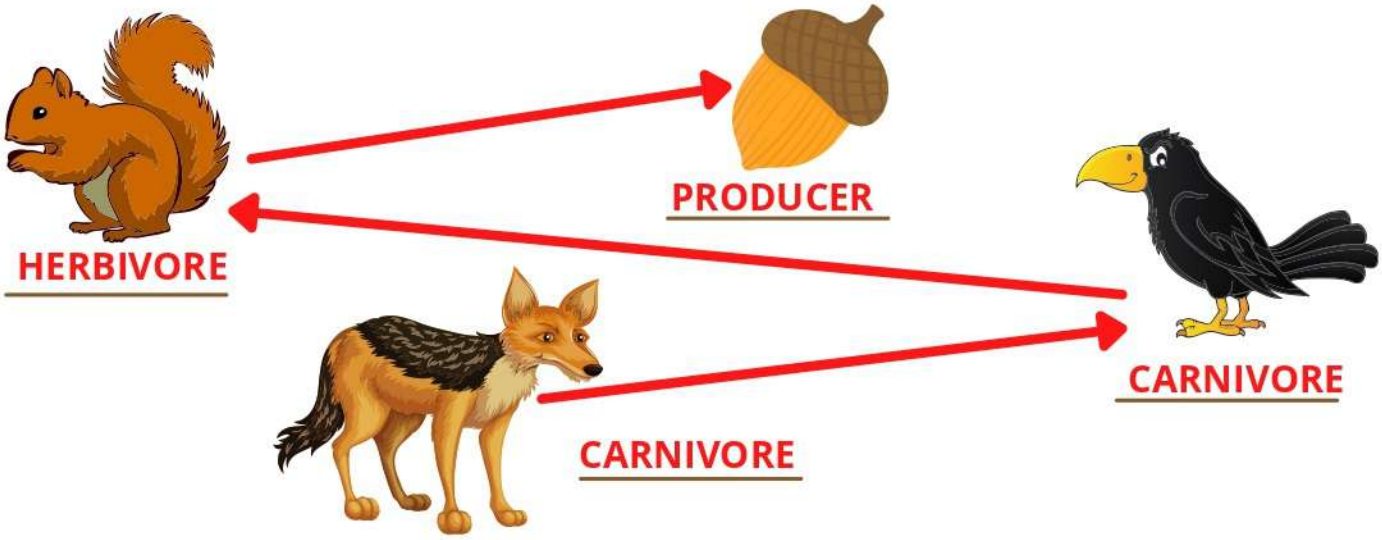
B. 1,000 kcal are available for the 1st trophic level, 100 kcal for the 2nd trophic level, 10 kcal for the 3rd trophic level. How many kcal are available for the tertiary consumer? _____

Name: _____ Teacher: _____

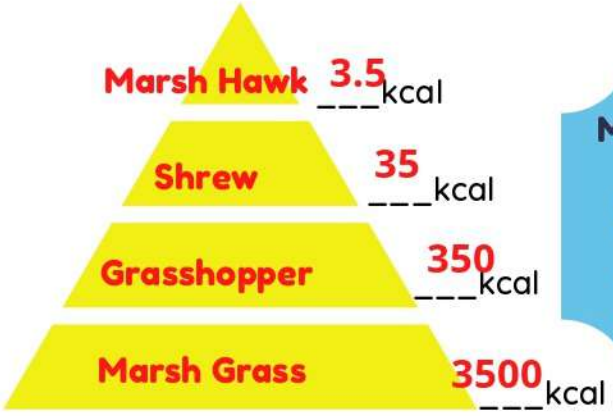
Grade & Section: _____ Date: _____

ANSWER KEY TO ENERGY THROUGH ECOSYSTEM WORKSHEET

Direction: Draw arrows between the organisms to show how energy moves through this food chain. Write producer, herbivore, or carnivore under each organism.



Direction: Place the organisms in each food chain into the proper location on the energy pyramid. Next is to complete the pyramid and fill in the organisms and energy amounts on the pyramid.



Marsh Grass → Grasshopper → Shrew→ Marsh Hawk

A. There is 3,500 kcal available for the 1st trophic level. There is _350_ kcal available for the 2nd trophic level. There is _35_ kcal available for the 3rd trophic level. There are 3.5 available for the 4th trophic level.

Phytoplankton → Shrimp → Snapper → Shark

B. 1,000 kcal are available for the 1st trophic level, 100 kcal for the 2nd trophic level, 10 kcal for the 3 rd trophic level. How many kcal are available for the tertiary consumer? _1_

Name: Teacher:

Grade & Section: Date: