

Energy Transfer

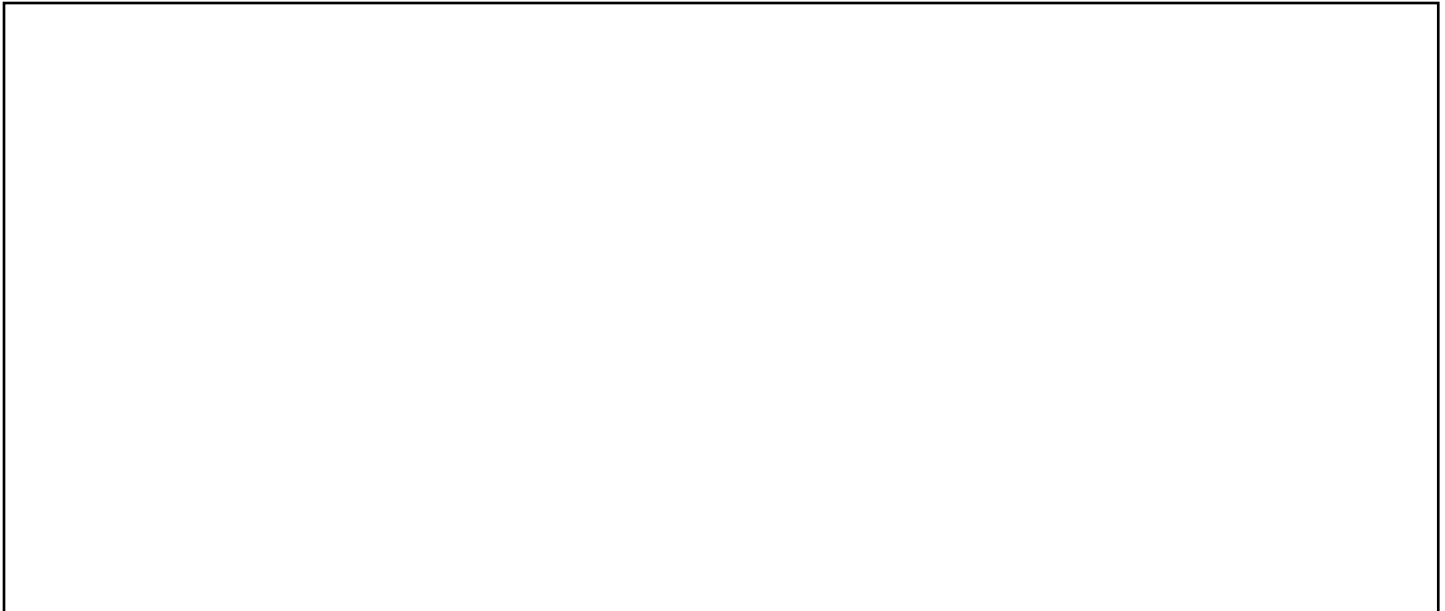
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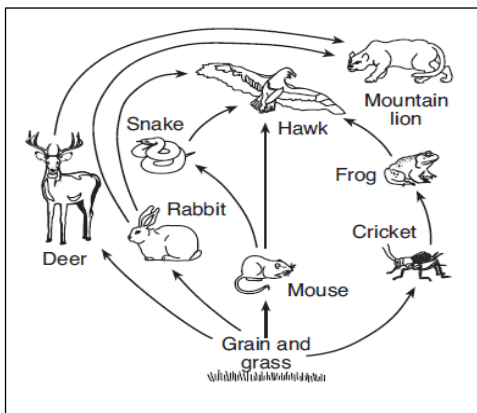
Directions: Click on the “Build a Food Web” link found on www.biologybynapier.com or you may type in <https://tinyurl.com/hwg2ebf>

Read through the Introduction. Click on the Trophic Table. Click on the “Food Web Game”. Use the table to help construct your food web online. Check your answer and complete the questions below.

Draw the food web you constructed in the box below – you can name the organisms OR draw them.



1. Which organism depicted in this food web is a producer?
2. From where do producers obtain their energy?
3. Which organisms in this food web are consumers?
4. How do you think tiny krill provide enough food to sustain whales?
5. What do you think would happen if krill were to vanish from the ecosystem?
6. What do you think would happen if killer whales were to vanish?
7. On **your FOOD WEB**, circle the organism(s) that will have the greatest amount of energy available.
8. On **your FOOD WEB**, put a box around the organisms who have the greatest amount of biomagnification and least amount of biomass.

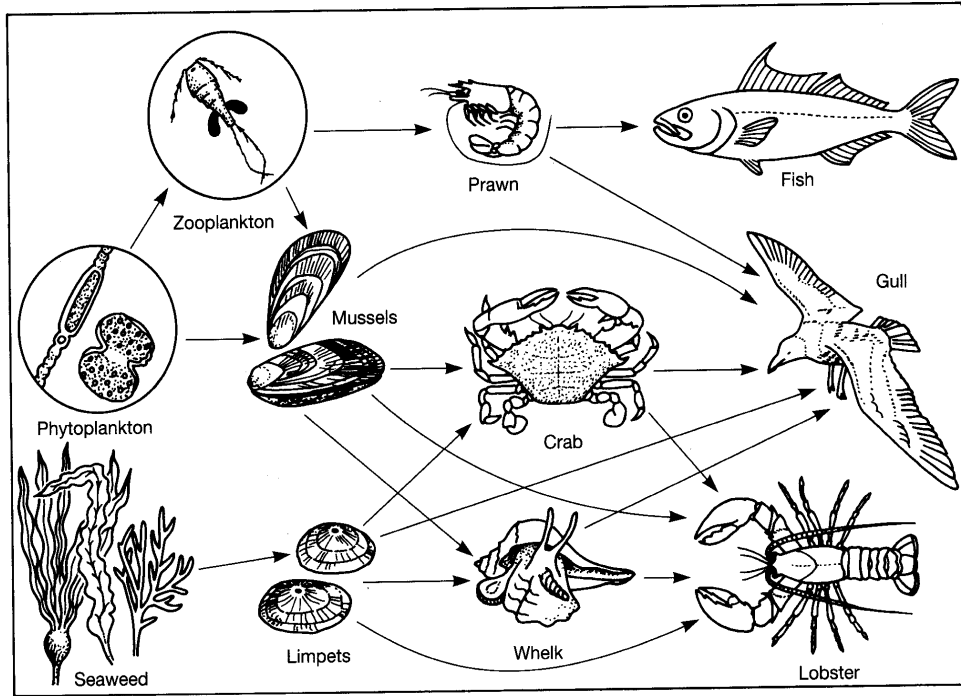


9. What two populations increase if the mountain lions are removed?

_____ & _____

10. An invasive species inhabits the area which decreases the number of crickets. Explain the effect this could have on the food web.

15. This food web shows producers, primary, secondary, and tertiary consumers. However, an important group of organisms is missing. What is the name of the special group that is missing? _____



1. What do the arrows mean (why do they point toward the predator)?

2. Identify two different food chains that are in the food web above. Go left to right, write the organisms in the boxes and don't forget to include the arrows.

3. How many autotrophs are in the food web above? _____

4. Name 2 tertiary consumers. _____ & _____

5. How many primary consumers are in the food web above? _____

6. In the food web diagram, color in green the organism(s) that will have the greatest amount of energy available and the least amount of bioaccumulation.

7. Put a box around the organisms who have the greatest amount of biomagnification and least amount of biomass.

8. If you killed off all the mussels in the ecosystem above describe what you would expect to happen (increase or decrease) to the following populations:

Whelk: _____

Zooplankton: _____

Phytoplankton: _____

Prawn: _____