

SCIENCE·3D

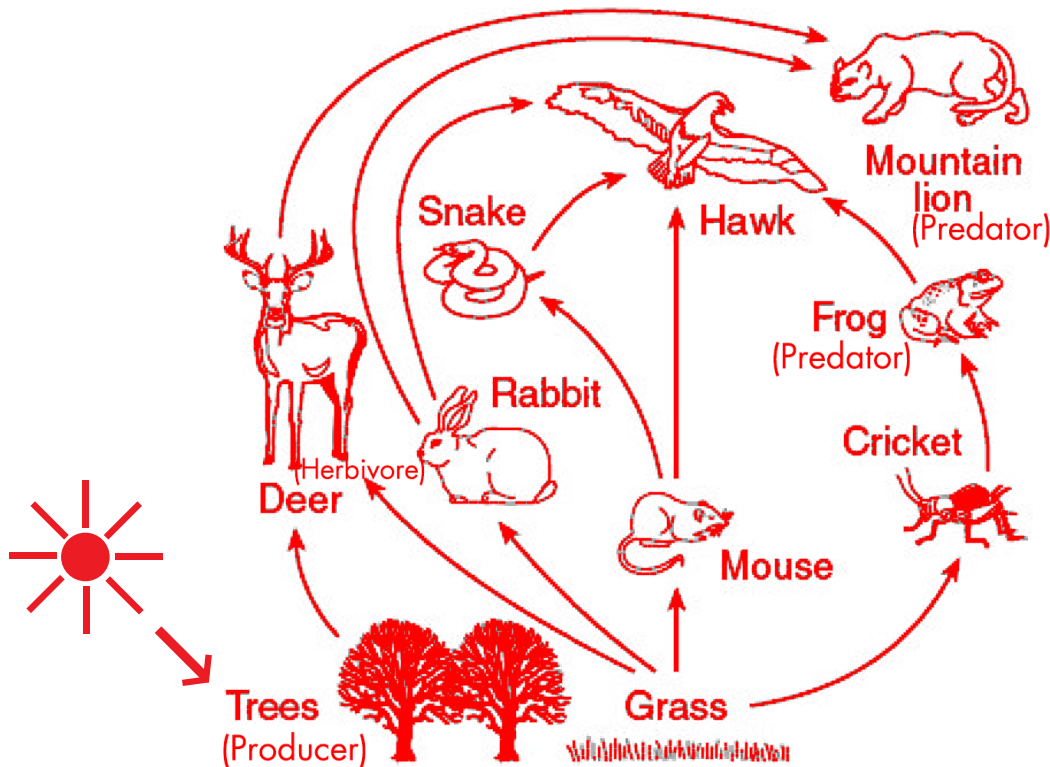
BATTLE DEEP: SPERM WHALES

In this packet, sample student answers are provided in **red** and notes to teachers are in **blue**.

In this **Explore Your Backyard** activity, students will reinforce their understanding of biotic and abiotic factors, as well as energy flow and the roles of organisms in ecosystems. They will also gain an understanding of how certain patterns are similar across different systems.



Draw the food web of the ecosystem. In your diagram, use arrows to show the flow of energy. Be sure to include the energy source in the ecosystem. Label each organism that you draw with the role it plays in the ecosystem (**producer, herbivore, predator, scavenger, decomposer**). Make sure each of these roles are represented in the ecosystem.



Compare and **contrast** this food web to the sperm whale food web that you completed in **Mission Research**.

Similarities should include that the source of energy is the sun and that there are producers, herbivores, predators and decomposers in each ecosystem. Contrasts are likely to focus on the specific species in each role including their lifestyle, size, or abundance.