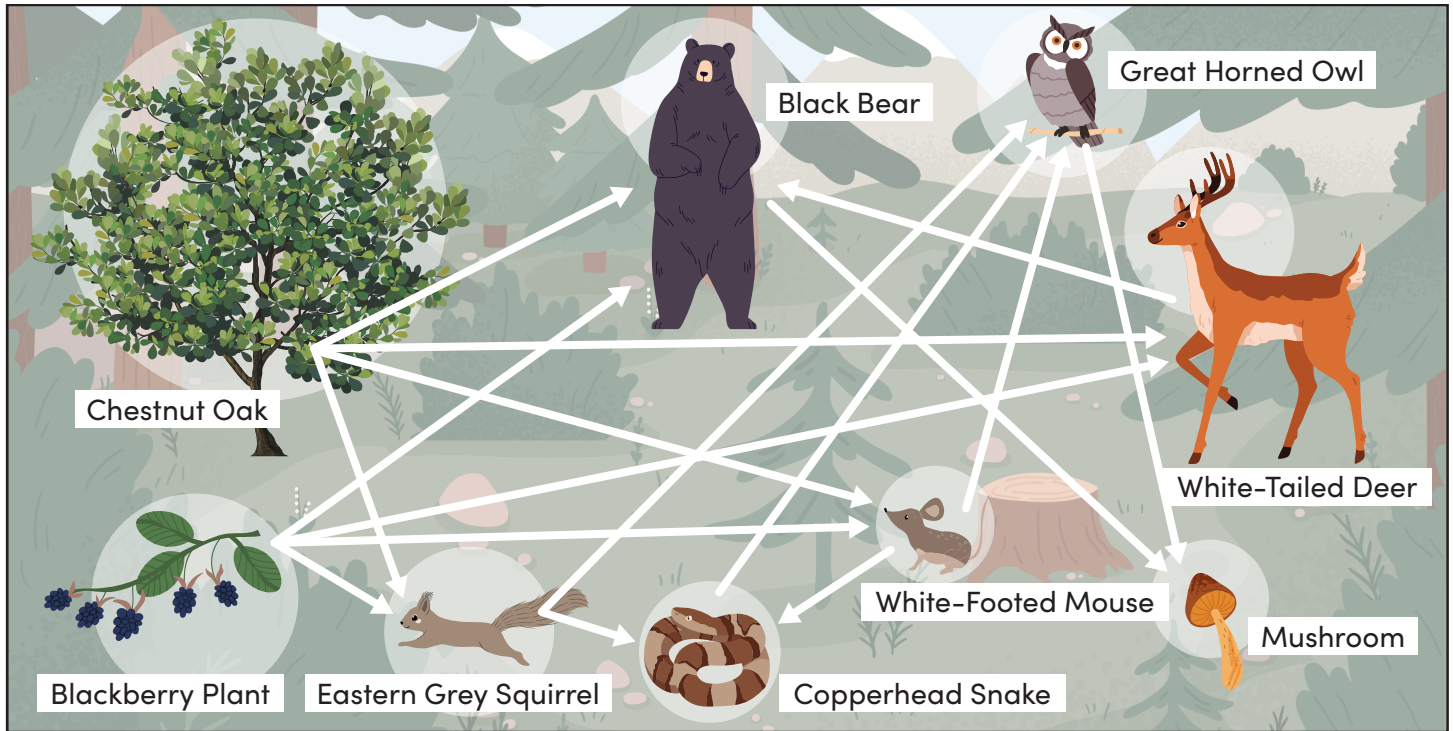


FOOD WEBS: CYCLING OF MATTER AND FLOW OF ENERGY

A **food web** is a map showing how matter and energy are transferred in an ecosystem. Use the food web of a temperate forest ecosystem to answer the questions.



1. Sort the organisms from the food web by writing their names in the appropriate column(s) of the table below. Some organisms will fit into multiple categories.

PRODUCERS	PRIMARY CONSUMERS	SECONDARY CONSUMERS	TERTIARY CONSUMERS	DECOMPOSERS

2. Plants make sugar during photosynthesis. Sugar is a carbon-containing molecule. Animals contain carbon molecules in their muscles. Describe one possible journey of a carbon molecule from carbon dioxide in the atmosphere to the muscle cell of a great horned owl.

3. Explain how all living things, even black bears, ultimately get their energy from the sun.
