

## CHAPTER 3: SCIENCE



### End-of-Unit Summative Assessment

**Summative Exam:** Students will complete a printed exam about energy transfer in ecosystems. The exam will consist of matching, multiple choice, fill in the blanks, and short response.



### Integrated Objective

**What should students know or do by the end of the lesson?**

Describe a trophic cascade.

**Exit Ticket Prompt**

Describe one of the trophic cascades that we learned today.

**Model Response**

One of the trophic cascades we learned today was about the wolves of Yellowstone. The wolves were one of the apex predators in the forest ecosystem. They preyed on primary consumers such as deer. When the wolves were hunted heavily, the deer's population increased significantly. They then overgrazed on producers such as seedlings. This caused more land erosion as there were fewer trees to hold the soil in place.

**Integrated Objective**

Thinking verb + content + language use (by . . .)  
Describe a trophic cascade by using words in a food chain.



### Establish Comprehensible Input

**Scaffold(s)**  
Background,  
Sensory, Graphic,  
Interactive,  
Linguistic

**Sensory:** Cut out different organisms in different ecosystems and arrows for students to manipulate to show the energy transfer and the organisms in the food chain.



### Structure Academic Output

**Scaffold(s)**  
Word, Sentence,  
Organization,  
and Context  
Dimension

**Linguistic:** Provide word bank that contains the content words *apex predator*, *secondary consumer*, *primary consumer*, *primary producers*.