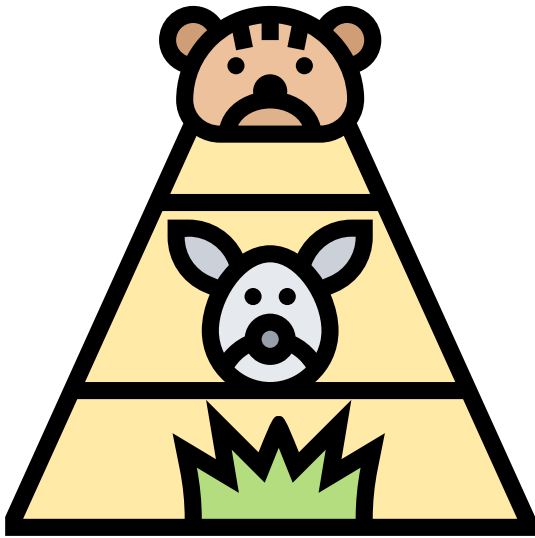
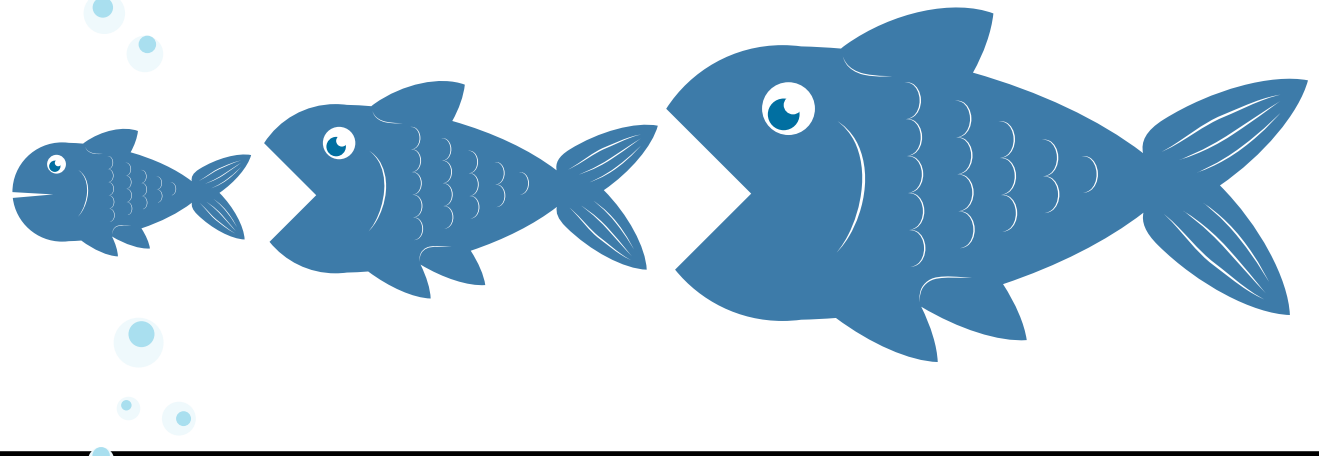


Food Chains and Food Webs - Energy Flow Lesson

6th, 7th, 8th Grade



- ✓ **Covers Key Concepts:** Photosynthesis, cellular respiration, food chains, food webs, & ecosystem balance.
- ✓ **Complete Lesson Package**
- ✓ **Multimedia & Activities**
- ✓ **Student Engagement Built-In**



Your Lesson

- ✓ **Key Concepts in Ecology:** Covers photosynthesis, cellular respiration, food chains, food webs, and ecosystem balance.
- ✓ **Complete Lesson Package:** Includes editable teacher and student slides, worksheets, exit ticket, and student handout.
- ✓ **Multimedia & Activities:** Features 3 embedded videos and 2 interactive worksheets to support active learning.
- ✓ **Student Engagement Built-In:** Student slides include fill-in-the-blank prompts aligned with bolded teacher notes.

Producers vs. Consumers

- Producers create sugar using energy from the Sun



algae



- Consumers are living things that eat producers and other consumers



Producers vs. Consumers

- Producers create sugar using energy from the Sun



algae



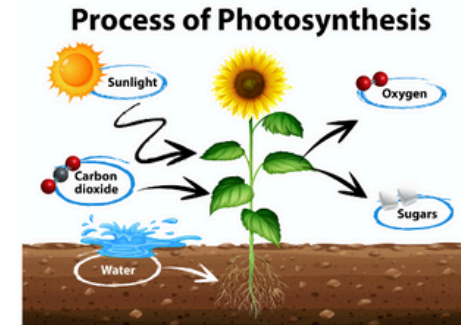
- _____



- Have your students complete the student version of the notes while you teach
- Student notes come mostly filled in so students can spend more time listening and less time copying notes.

Photosynthesis

- The process where producers convert the Sun's energy into sugars
- Producer – an organism that makes sugar using the Sun's energy
- ✓ **Plants** - Most land-based photosynthesis is done by green plants
- ✓ **Algae** – Algae is a major producer in water.



carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar + oxygen

Videos embedded in directly into your slides. One-click access.

Food Chains and Food Webs - Exit Ticket

* Indicates required question

What is the main source of energy for nearly all ecosystems? *

1 point

- ☐ The Moon
- ☐ The Sun
- ☐ Sugar
- ☐ Carbon Dioxide

Next

Page 1 of 4

Clear form

Includes student notes
in easy-to-fill-in
formats.

4-Question, Auto-Graded Exit Ticket based on information from the lesson.

Food Chains and Food Webs Energy Flow in Ecosystems – Student Lesson Outline

Energy Flow

- * _____
- * _____
- * Plants and animals use this sugar to create energy
- * Organisms that can't do photosynthesis, must eat plants or other animals to get the sugar

This feeding relationship is shown in food chains and food webs which can be impacted by

- ✓ Competition and Invasive Species
- ✓ Habitat Destruction
- ✓ Seasonal Changes and Resource Availability

Photosynthesis (include the chemical formula)

- * _____
- * Producer – an organism that makes sugar using the Sun's energy
- ✓ Plants - Most land-based photosynthesis is done by green plants
- ✓ Algae – Algae is a major producer in water.

Process of Photosynthesis (include the diagram)

Cellular Respiration

- * _____
- * _____
- * The organism uses this energy to do everything

Photosynthesis and Cellular Respiration (include the diagram)

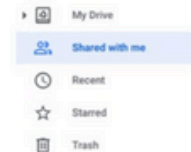
Producers vs. Consumers

- * Producers create sugar using energy from the Sun
- * _____

Herbivores

Google Access

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of your resources into your
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TWF

**Google Classroom Ready
One-Click Google Slides Access**

Bonus!

Your lesson also includes my Ecology Word Search and Scramble Activity.

Ecology Word Search and Scramble

THREE Activities in One!

1. **Basic 25-Term Word Search**
2. **Scrambled Words Word Search**
3. **Word Scramble and Define Activity**



Who is it for?

- ✓ Middle School Science Teachers
- ✓ Teachers using NGSS
- ✓ Teachers who want to increase studentss engagemetn and retention
- ✓ Teachers not looking to reinvent the wheel
- ✓ Teachers who dn't wan to spend all their time prepping