

4 Life Science: Molecules/ Organisms/Ecosystems

Content Area: **Science**
Course(s): **Science 5**
Time Period: **Undefined**
Length: **Undefined**
Status: **Published**

Unit Overview

Essential Questions

How do plants and animals grow and change?

How do adaptations help plants?

How adaptations help animals?

What are the life cycles of some plants/animals?

How do organisms interact in ecosystems?

How do ecosystems change?

How do humans impact ecosystems?

Content

Adaptations help plants survive in different environments.

Adaptations help animals survive in different environments.

Organisms interact differently depending on their natural environment

Energy plays an important role in every ecosystem

Food chains and food webs are vital sources of energy in an ecosystem

Ecosystems change depending on environmental factors

People change ecosystems

Skills

Understand that plants can survive in different environments because of adaptations.

Understand that animals can survive in different environments because of adaptations.

Demonstrate how plants survive in various environments.

Demonstrate how water loss relates to surface area.

Explain and understand the steps and cycles of succession and how it impacts our environment.

Understand life-cycle variations, physical characteristics, and extinction.

Compare and contrast structural adaptations of same species.

Understand how organisms interact in ecosystems.

Identify and explain food chain and food web.

Understand behavioral adaptation and seasonal changes.

Explain environmental changes and how some animals and plants survive these changes.

Compare and contrast changes in the environment due to organism impact and human impact

Assessments

Apply understanding of classification to identify and group previously unknown plants and animals.

Study Guide

Chapter Review

Chapter Test

Interactive notebook

Class discussion

Hands on labs/Explore It activities

TBD

Lessons/Learning Scenarios

Chapter 4

Lesson 2:

Read and discuss pages 129-133

Explore Activity page 128

Interactive notebook : Photosynthesis

PowerPoint presentation w/ question/answer sessions throughout

Lesson 3:

Read and discuss pages 134-139

Explore It activity page 134- hands on

Interactive notebook activities: TBD

Amphibian metamorphosis lab: TBD

Chapter 6

Lesson 2:

Read and discuss pages 216-223

Interactive notebook: Animals' Food (48), Food Chain vocabulary (54), Decomposers (57), Energy in food chains & food webs (60,63)

Explore It activity page 216- hands on

Lesson 3:

Read and discuss pages 224-230

My Planet Diary- connect to real world

Interactive notebook (98)

lesson 4:

Explore It activity- hands on page 232

Read and discuss pages 233-235

Alternate energy resources- Interactive notebook (101)

Standards

| | |
|---------------|---|
| SCI.5.5-LS1 | From Molecules to Organisms: Structures and Processes |
| SCI.5.5-LS1-1 | Support an argument that plants get the materials they need for growth chiefly from air and water. |
| SCI.5.5-LS2-1 | Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. |
| SCI.5.5-LS2 | Ecosystems: Interactions, Energy, and Dynamics |
| SCI.5.5-PS3-1 | Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. |
| SCI.5.5-PS3 | Energy |

Resources
