

# Unit 3: Life of Animals (LLD)

Content Area: **Science**  
Course(s):  
Time Period: **Trimester**  
Length: **Trimester 3**  
Status: **Published**

## General Overview, Course Description or Course Philosophy

Unit 3: Life of Animals in the LLD setting takes a look at the general education curriculum and scales it down for special education students. This allows the students in the LLD classroom setting to learn in the appropriate setting while exploring the lives of different animals.

## OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

### Objectives and Enduring Understandings:

- Students develop understanding of how different animals survive in different habitats, how humans affect their environment, and how the life of an animal can change when an ecosystem changes.

### Essential Questions:

- How do particular structures allow animals to survive?
- How do an animal's habitat meet an organism's basic needs?
- How do Humans affect the environment?
- What happens to animals when ecosystems change?
- How does the amount of freshwater on earth affect the distribution of animals on earth?

## CONTENT AREA STANDARDS

5-ESS2-2	Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
5-ESS3-1	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
5-ESS2-1	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
5-LS1-1	Support an argument that plants get the materials they need for growth chiefly from air and water.
5-LS2-1	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.
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.

## **RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)**

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LA.RI.5.1	Quote accurately from a text and make relevant connections when explaining what the text says explicitly and when drawing inferences from the text.
LA.RI.5.7	Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.
LA.W.5.8	Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.
LA.W.5.9	Draw evidence from literary or informational texts to support analysis, reflection, and research.
TECH.9.4.5.CT.1	Identify and gather relevant data that will aid in the problem-solving process (e.g., 2.1.5.EH.4, 4-ESS3-1, 6.3.5.CivicsPD.2).
TECH.9.4.5.CT.2	Identify a problem and list the types of individuals and resources (e.g., school, community agencies, governmental, online) that can aid in solving the problem (e.g., 2.1.5.CHSS.1, 4-ESS3-1).

## **STUDENT LEARNING TARGETS**

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### **Declarative Knowledge**

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Students will understand that:

- Earth’s major systems are the geosphere (solid and molten rock, soil, and sediments), the hydrosphere (water and ice), the atmosphere (air), and the biosphere (living things, including humans). These systems interact in multiple ways to affect Earth’s surface materials and processes.
- The ocean supports a variety of ecosystems and organisms, shapes landforms, and influences climate.
- Winds and clouds in the atmosphere interact with the landforms to determine patterns of weather.
- Nearly all of Earth’s available water is in the ocean.
- Most fresh water is in glaciers or underground; only a tiny fraction is in streams, lakes, wetlands, and the atmosphere.
- Human activities in agriculture, industry, and everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space. But individuals and communities are doing things to help protect Earth’s resources and environments.
- Plants acquire their material for growth chiefly from air and water.
- The food of almost any kind of animal can be traced back to plants.
- Organisms are related in food webs in which some animals eat plants for food and other animals eat the animals that eat plants. Some organisms, such as fungi and bacteria, break down dead organisms (both plants or plants parts and animals) and therefore operate as “decomposers.”
- Decomposition eventually restores (recycles) some materials back to the soil.
- Organisms can survive only in environments in which their particular needs are met. A healthy ecosystem is one in which multiple species of different types are each able to meet their needs in a relatively stable web of life.

- Newly introduced species can damage the balance of an ecosystem.
- Matter cycles between the air and soil and among plants, animals, and microbes as these organisms live and die. Organisms obtain gases, and water, from the environment, and release waste matter (gas, liquid, or solid) back into the environment.
- The energy released [from] food was once energy from the sun that was captured by plants in the chemical process that forms plant matter (from air and water).
- Food provides animals with the materials they need for body repair and growth and the energy they need to maintain body warmth and for motion. (secondary).

## **Procedural Knowledge**

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Students will be able to:

- Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
- Describe the amounts of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
- Describe the percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
- Graph the amounts of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
- Graph the percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
- Obtain information about ways individual communities use science ideas to protect the Earth's resources and environment.
- Combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
- Support an argument that plants get the materials they need for growth chiefly from air.
- Support an argument that plants get the materials they need for growth chiefly from water.
- Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.
- 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.
- Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.
- Make relevant connections when explaining what the text says explicitly and when drawing inferences from the text.
- Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.
- Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.
- Draw evidence from literary or informational texts to support analysis, reflection, and research.

## **EVIDENCE OF LEARNING**

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### **Formative Assessments**

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- Student predictions, observations, and questions
- Teacher questions and discussion
- Observe students as they apply new concepts and skills
- Evidence of students changed thinking and behaviors
- Open ended questions
- Students answering questions using observations, evidence, and previous accepted explanations
- Students asking related questions that encourage future investigations
- Monitor students working in groups
- Listen to whole class conversations to check for understanding
- Completing tasks
- Recording observations in student journal
- Data charts
- Lab Activities

### **Summative Assessments**

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#### Benchmark Assessments

- Multiple Choice Assessment administered at the end of each trimester (T1, T2, T3)

#### Alternative Assessments

- Oral Presentations
- Questions for Comprehension
- Performance Tasks
- Scientific Journals/Notebooks
- Self-Assessment
- WebQuests

## **RESOURCES (Instructional, Supplemental, Intervention Materials)**

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- Teacher Edition

- Student Lab Manual
- Student Science Notebook
- Graphic organizers
- Videos

## **INTERDISCIPLINARY CONNECTIONS**

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- Integrate quantitative or technical information expressed in words in a text. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.
- Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
- Social Emotional Learning
- Geoscience
- Sustainability

## **ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS**

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See link to Accommodations & Modifications document in course folder.

\*In addition to IEP Accommodations & Modifications:

- Restate and review directions
- Student restates directions or information
- Oral responses
- Small group/ one to one
- Additional time
- Concrete examples
- Extra visuals
- Support auditory information with visuals
- Space for movement or breaks
- Extra verbal cues and prompts