

Deer Flat National Wildlife Refuge Environmental Education Programs  
Correlation with Idaho Achievement Standards in Science

	Animal Camouflage	Animal Olympics	Ecosystems Alive!	Field Trips	Highways in the Sky	The Lorax	Touch Trunk	Urban Wildlife	Junior Duck Stamp	Wetland Wonders	NWRS		Field Trips: VC	Field Trips: Hike	Field Trips: Other
<b>IDAHO ACHIEVEMENT STANDARDS</b>															
<b>KINDERGARTEN: SCIENCE</b>															
<b>Standard 1: Nature of Science</b>															
<b>Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills</b>															
K.S.1.6.1 Make observations.	X	X		X			X		X				X	X	X
<b>Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors</b>															
K.S.1.7.1 Use cooperation and interaction skills.	X	X		X			X						X	X	X
<b>Goal 1.8: Understand Technical Communication</b>															
K.S.1.8.1 Follow instructions.	X	X		X			X		X				X	X	X
<b>Standard 2: Physical Science</b>															
<b>Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions</b>															
K.S.2.1.1 Use senses to describe matter.	X	X		X			X		X				X	X	
<b>Standard 3: Biology</b>															
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>															
K.S.3.1.1 Observe and describe the characteristics of plants and animals.	X	X		X			X		X				X	X	
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>															
K.S.3.2.1 Describe the difference between living and non-living things.				X										X	

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<b>IDAHO ACHIEVEMENT STANDARDS</b>															
<b>GRADE 1: SCIENCE</b>															
<b>Standard 1: Nature of Science</b>															
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations</b>															
1.S.1.2.1 Make observations, collect data, and use data.															
<b>Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills</b>															
1.S.1.6.1 Make and record observations.	X			X									X		
<b>Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors</b>															
1.S.1.7.1 Demonstrate cooperation and interaction skills.	X	X	X	X		X	X						X	X	X
<b>Goal 1.8: Understand Technical Communication</b>															
1.S.1.8.1 Follow multi-step instructions.															
<b>Standard 2: Physical Science</b>															
<b>Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions</b>															
1.S.2.1.1 Describe properties of objects.	X	X	X	X			X	X	X				X	X	
<b>Standard 3: Biology</b>															
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>															
1.S.3.1.1 Describe the life cycle of a plant (seed, growth, reproduction, death).															
1.S.3.1.2 Describe the life cycle of an animal (birth, development, reproduction, death).									X						
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>															
1.S.3.2.1 State that living things need food to survive.	X	X	X	X	X	X	X	X	X				X	X	X
<b>Standard 5: Personal and Social Perspectives; Technology</b>															
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>															
1.S.5.1.1 Identify the characteristics of local natural environments. (playground, backyard).	X			X				X	X					X	

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<b>IDAHO ACHIEVEMENT STANDARDS</b>															
<b>GRADE 2: SCIENCE</b>															
<b>Standard 1: Nature of Science</b>															
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations</b>															
2.S.1.2.1 Make observations, record and interpret data.															
<b>Goal 1.5: Understand Concepts of Form and Function</b>															
2.S.1.5.1 Identify shape and use of objects.									X						
<b>Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills</b>															
2.S.1.6.1 Identify questions to be investigated.			X												
2.S.1.6.2 Make observations.			X												
2.S.1.6.3 Analyze information and evidence.			X												
2.S.1.6.4 Communicate observations.			X												
<b>Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors</b>															
2.S.1.7.1 Practice cooperation and interaction skills.	X	X	X	X	X	X	X	X		X	X		X	X	X
<b>Goal 1.8: Understand Technical Communication</b>															
2.S.1.8.1 Follow multi-step instructions.											X				
<b>Standard 2: Physical Science</b>															
<b>Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions</b>															
2.S.2.1.1 List properties of an object.	X	X	X		X	X	X	X	X	X	X		X	X	
<b>Goal 2.2: Understand Concepts of Motion and Forces</b>															
2.S.2.2.1 Explain how force affects the position and motion of objects.															
<b>Standard 3: Biology</b>															
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>															
2.S.3.2.1 Identify four basic needs of all living things (food, shelter, water, space).	X	X	X		X	X	X	X	X	X	X		X	X	X
2.S.3.2.2 Discuss how animals are suited to live in different habitats.	X	X	X		X	X	X	X	X	X	X		X	X	
<b>Standard 5: Personal and Social Perspectives; Technology</b>															

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<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>															
2.S.5.1.1 Compare and contrast man-made and natural environments.								X		X	X				
<b>Goal 5.2: Understand the Relationship between Science and Technology</b>															
2.S.5.2.1 Identify tools people have invented for everyday life and for scientific investigations.									X	X					

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<b>IDAHO ACHIEVEMENT STANDARDS</b>															
<b>GRADE 3: SCIENCE</b>															
<b>Standard 1: Nature of Science</b>															
<b>Goal 1.1: Understand Systems, Order, and Organization</b>															
3.S.1.1.1 Label the parts of a system.			X			X				X					
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations</b>															
3.S.1.2.1 Make observations, collect data and evaluate it.															
<b>Goal 1.5: Understand Concepts of Form and Function</b>															
3.S.1.5.1 Describe the relationship between shape and use.	X								X						
<b>Goal 1.8: Understand Technical Communication</b>															
3.S.1.8.1 Read and give multi-step instructions.											X				
<b>Standard 3: Biology</b>															
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>															
3.S.3.1.1 Describe the adaptations of plants and animals to their environment.	X	X	X		X	X	X	X	X	X	X		X	X	
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>															
3.S.3.2.1 Describe the energy needed for living systems to survive.			X		X				X	X	X				
3.S.3.2.2 Compare and contrast the energy requirements of plants and animals.			X							X	X				
3.S.3.2.3 Label a food chain that shows how organisms cooperate and compete in an ecosystem.			X							X					
3.S.3.2.4 Diagram the food web and explain how organisms both cooperate and compete in ecosystems.			X							X					
<b>Standard 5: Personal and Social Perspectives; Technology</b>															
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>															
3.S.5.1.1 Identify local environmental issues.					X	X		X	X	X	X		X	X	

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<b>IDAHO ACHIEVEMENT STANDARDS</b>															
<b>GRADE 4: SCIENCE</b>															
<b>Standard 1: Nature of Science</b>															
<b>Goal 1.1: Understand Systems, Order, and Organization</b>															
4.S.1.1.1 Explain that a system consists of an organized group of related objects that form a whole.										X	X				
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations</b>															
4.S.1.2.1 Make and record observations then analyze and communicate the collected data.															
<b>Goal 1.5: Understand Concepts of Form and Function</b>															
4.S.1.5.1 Explain the relationship between shape and use.	X								X						
<b>Standard 3: Biology</b>															
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>															
4.S.3.1.1 Analyze and communicate the adaptations of plants and animals to their environment.	X	X	X	X			X	X	X	X	X		X	X	
4.S.3.1.2 Describe the difference between vertebrate and invertebrate animals.	X	X					X				X				
4.S.3.1.3 Classify the five groups of vertebrates (mammal, reptiles, amphibians, birds, and fish)based on characteristics.	X	X					X		X		X				

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<b>IDAHO ACHIEVEMENT STANDARDS</b>																
<b>GRADE 5: SCIENCE</b>																
<b>Standard 1: Nature of Science</b>																
<b>Goal 1.1: Understand Systems, Order, and Organization</b>																
5.S.1.1.1 Compare and contrast different systems.										X						
<b>Goal 1.5: Understand Concepts of Form and Function</b>																
5.S.1.5.1 Explain how the shape or form of an object or system is frequently related to its use or function.	X	X					X	X								
<b>Standard 3: Biology</b>																
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>																
5.S.3.2.1 Communicate how plants convert energy from the sun through photosynthesis.			X							X						
<b>Standard 5: Personal and Social Perspectives; Technology</b>																
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>																
5.S.5.1.1 Identify issues for environmental studies.			X	X	X	X		X	X	X	X			X		

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<b>IDAHO ACHIEVEMENT STANDARDS</b>																
<b>GRADE 6: SCIENCE</b>																
<b><u>Standard 1: Nature of Science</u></b>																
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanation</b>																
6.S.1.2.1 Explain how observations and data are used as evidence on which to base scientific explanations and predictions.											X					
6.S.1.5.1 Analyze how the shape or form of an object or system is frequently related to its use and/or function.	X	X					X		X							
<b><u>Standard 5: Personal and Social Perspectives; Technology</u></b>																
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>																
6.S.5.1.1 Identify issues for environmental studies.			X	X	X	X		X	X	X	X			X		
<b>Goal 5.2: Understand the Relationship between Science and Technology</b>																
6.S.5.2.1 Describe how science and technology are part of our society.											X					
<b>Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them</b>																
6.S.5.3.1 Explain the difference between renewable and nonrenewable resources.							X?									

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<b>IDAHO ACHIEVEMENT STANDARDS</b>															
<b>GRADE 7: SCIENCE</b>															
<b>Standard 1: Nature of Science</b>															
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanation</b>															
7.S.1.2.1 Describe how observations and data are evidence on which to base scientific explanations and predictions.											X				
<b>Standard 3: Biology</b>															
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>															
7.S.3.1.1 Describe how natural selection explains species change over time.	X	X					X		X						
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>															
7.S.3.2.1 Describe how energy stored in food is primarily derived from the sun through photosynthesis.			X												
7.S.3.2.2 Describe how the availability of resources (matter and energy) limits the distribution and abundance of organisms.			X			X			X	X	X				
7.S.3.2.3 Illustrate how atoms and molecules cycle among the living and nonliving components of the biosphere.															
7.S.3.2.4 Identify how energy flows through ecosystems in one direction, from photosynthetic organisms to herbivores, carnivore, and decomposers.			X						X	X					

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<b>IDAHO ACHIEVEMENT STANDARDS</b>																
<b>GRADE 8-9: EARTH SCIENCE</b>																
<b><u>Standard 1: Nature of Science</u></b>																
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanation</b>																
8-9.ES.1.2.1 Use observations and data as evidence on which to base scientific explanations.																
8-9.ES.1.2.2 Develop models to explain concepts or systems.																
8-9.ES.1.2.3 Develop scientific explanations based on knowledge, logic, and analysis.																
<b><u>Standard 5: Personal and Social Perspectives: Technology</u></b>																
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>																
8-9.ES.5.1.1 Analyze environmental issues such as water and air quality, hazardous waste, and depletion of natural resources.										X	X					

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<b>IDAHO ACHIEVEMENT STANDARDS</b>																
<b>GRADE 9-10: BIOLOGY</b>																
<b><u>Standard 1: Nature of Science</u></b>																
<b>Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanation</b>																
9-10.B.1.2.1 Use observations and data as evidence on which to base scientific explanations.																
9-10.B.1.2.2 Develop models to explain concepts or systems.																
9-10.B.1.2.3 Develop scientific explanations based on knowledge, logic and analysis.																
<b><u>Standard 3: Biology</u></b>																
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>																
9-10.B.3.1.1 Use the theory of evolution to explain how species change over time.	X?						X?									
9-10.B.3.1.2 Explain how evolution is the consequence of interactions among the potential of a species to increase its numbers, genetic variability, a finite supply of resources, and the selection by the environment of those offspring better able to survive and reproduce.	X?						X?									
<b><u>Standard 5: Personal and Social Perspectives: Technology</u></b>																
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>																
9-10.B.5.1.1 Analyze environmental issues such as water and air quality, hazardous waste, forest health, and agricultural production.										X	X					