

NATURE QUEST

Lesson Objectives & Correlations to Education Standards

Title	Mission <i>Learning Objectives</i>	Quest <i>Activity Description</i>	Types of Play	21st Century Skill	Next Generation Science Standards	National Science Education Standards	NAEE Excellence in Environmental Education Standards
Treasure Chest	Inventory elements found in nature.	Collect and identify loose parts in nature along with their function.	<ul style="list-style-type: none"> - Parallel - Fantasy - Physical 	<ul style="list-style-type: none"> - Creativity & innovation - Flexibility & adaptability - Initiative & self-Direction - Social & cross-cultural skills 	<ul style="list-style-type: none"> - Constructing explanations and designing solutions - Structure and function - Scientific Investigations - Use a Variety of Methods - Science is a Way of Knowing - Science Addresses Questions About the Natural and Material World 	<ul style="list-style-type: none"> - Systems, order, and organization - Form and function - Properties of Earth materials - Distinguishing natural objects and human-made objects 	<ul style="list-style-type: none"> - Questioning - Collecting information - Organizing information - Developing explanations
Fueling for Survival	Identify sources of food and water in nature that fuel plants and animals.	Play hot/cold to connect to sources of fuel in nature.	<ul style="list-style-type: none"> - Cooperative - Fantasy - Physical 	<ul style="list-style-type: none"> - Environmental literacy - Communication - Collaboration - Flexibility & adaptability - Social & cross-cultural skills 	<ul style="list-style-type: none"> - Asking questions and defining problems - Developing and using models - Constructing explanations and designing solutions - Scientific Investigations - Scientific Models, Laws, Mechanisms, and Theories - Science is a Way of Knowing - Science Addresses Questions About the Natural and Material World - Interdependence of science 	<ul style="list-style-type: none"> - Evidence, models, and explanation - Scientific inquiry - Organisms and environments - Properties of Earth materials - Types of resources 	<ul style="list-style-type: none"> - Working with models and simulations - Developing explanations - Earth as a physical system - Living environment

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Power Up	Experience the advantages of adaptations.	Build a nest under limiting conditions and play a game of freeze to observe adaptations.	<ul style="list-style-type: none"> - Parallel - Cooperative - Fantasy - Competitive - Physical - Constructive 	<ul style="list-style-type: none"> - Environmental literacy - Creativity & innovation - Critical thinking & problem solving 	<ul style="list-style-type: none"> - Asking questions and defining problems - Constructing explanations and designing solutions - Structure and function - Scientific Investigations Use a Variety of Methods - Science is a Way of Knowing - Science Addresses Questions About the Natural and Material World - Interdependence of science - Engineering and technology 	<ul style="list-style-type: none"> - Form and function - Scientific inquiry - Characteristics of organisms - Organisms and environments 	<ul style="list-style-type: none"> - Working with models and simulations - Collecting information - Developing explanations - Living environment
Home Base	Observe characteristics of animal shelters.	Play "I Spy" to identify small, medium and large-sized shelters in nature.	<ul style="list-style-type: none"> - Cooperative - Fantasy - Physical 	<ul style="list-style-type: none"> - Environmental literacy - Communication - Collaboration - Social & cross-cultural skills - Leadership & responsibility 	<ul style="list-style-type: none"> - Developing and using models - Planning and carrying out investigations - Patterns - Scientific Investigations Use a Variety of Methods - Scientific Models, Laws, Mechanisms, and Theories Explain Natural Phenomena - Science is a Way of Knowing - Science Addresses Questions About the Natural and Material World 	<ul style="list-style-type: none"> - Systems, order, and organization - Evidence, models, and explanation - Organisms and environments 	<ul style="list-style-type: none"> - Designing investigations - Collecting information - Organizing information - Living environment

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Nature's Brew	Understand the need for animals to secure shelter.	Draw scenario cards to prompt the building of shelters.	<ul style="list-style-type: none"> - Parallel - Cooperative - Fantasy - Physical - Constructive 	<ul style="list-style-type: none"> - Global awareness - Environmental literacy - Creativity & innovation - Critical thinking & problem solving - Social & cross-cultural skills - Productivity & accountability 	<ul style="list-style-type: none"> - Developing and using models - Constructing explanations (for science) and designing solutions (for engineering) - Cause and effect - Interdependence of science - Engineering and technology, and the influence of science, engineering and technology on society and the natural world 	<ul style="list-style-type: none"> - Evidence, models, and explanation - Evolution and equilibrium - Organisms and environments - Populations - Changes in environments 	<ul style="list-style-type: none"> - Working with models and simulations - Developing explanations - Earth as a physical system - Living environment - Humans and their societies - Decision-making for environmental issues
Head to Head	Experience head-to-head encounters to understand food chains.	Play rock/paper/scissors to prompt movement through trophic levels.	<ul style="list-style-type: none"> - Cooperative - Fantasy - Competitive - Physical 	<ul style="list-style-type: none"> - Environmental literacy - Communication - Flexibility & adaptability 	<ul style="list-style-type: none"> - Systems and system models - Energy and matter: flows, cycles, and conservation - Stability and change - Scientific Investigations - Science is a Way of Knowing - Order and Consistency in Natural Systems - Addresses Questions About the Natural and Material World - Interdependence of science 	<ul style="list-style-type: none"> - Systems, order, and organization - Life cycles of organisms Organisms and environments 	<ul style="list-style-type: none"> - Working with models and simulations - Living environment

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Hidden Treasures	Discover patterns in nature along with their function.	Observe and recreate patterns in nature.	<ul style="list-style-type: none"> - Parallel - Cooperative - Fantasy - Constructive - Expressive 	<ul style="list-style-type: none"> - Creativity & innovation - Critical thinking & problem solving - Initiative & self-direction 	<ul style="list-style-type: none"> - Developing and using models - Constructing explanations and designing solutions - Patterns - Scientific Models, Laws, Mechanisms, and Theories Explain Natural Phenomena - Science is a Way of Knowing - Scientific Knowledge Assumes an Order and Consistency in Natural Systems - Science Addresses Questions About the Natural and Material World - Engineering and technology 	<ul style="list-style-type: none"> - Systems, order, and organization - Evidence, models, and explanation - Form and function - Properties of Earth materials - Distinguishing natural objects and human-made objects 	<ul style="list-style-type: none"> - Collecting information - Organizing information - Working with models and simulations - Developing explanations - Living environment
Pairs Plus	Gain an appreciation for cooperative relationships in nature.	Link in pairs and large groups to mirror cooperation in nature.	<ul style="list-style-type: none"> - Cooperative - Fantasy - Competitive - Physical 	<ul style="list-style-type: none"> - Environmental literacy - Critical thinking & problem solving - Communication - Collaboration - Flexibility & adaptability 	<ul style="list-style-type: none"> - Constructing explanations and designing solutions - Stability and change - Scientific Investigations Use a Variety of Methods - Science is a Way of Knowing - Science Addresses Questions About the Natural and Material World - Interdependence of science 	<ul style="list-style-type: none"> - Evolution and equilibrium - Organisms and environments - Populations 	<ul style="list-style-type: none"> - Working with models and simulations - Developing explanations - Living environment

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Level Up	Consider the effects of humans on the natural environment.	Pay or be paid treasures depending on your daily actions.	<ul style="list-style-type: none"> - Fantasy - Competitive 	<ul style="list-style-type: none"> - Global awareness - Civic literacy - Environmental literacy - Critical thinking & problem solving - Productivity & accountability - Leadership & responsibility 	<ul style="list-style-type: none"> - Developing and using models - Cause and Effect - Energy and matter: flows, cycles, and conservation - Scientific Models, Laws, Mechanisms, and Theories Explain Natural Phenomena - Science is a Human Endeavor - Science Addresses Questions About the Natural and Material World 	<ul style="list-style-type: none"> - Evidence, models, and explanation - Constancy, change, and measurement - Evolution and equilibrium - Organisms and environments - Types of resources - Changes in environments 	<ul style="list-style-type: none"> - Humans and their societies - Analyzing and investigating environmental issues - Decision-making for environmental issues
People Power	Understand current global environmental challenges and work collaboratively to positively impact your natural environment.	Encounter and overcome scenarios illustrating human impact on nature and take action to complete a service project.	<ul style="list-style-type: none"> - Cooperative - Fantasy - Expressive 	<ul style="list-style-type: none"> - Global awareness - Civic literacy - Environmental literacy - Creativity & innovation - Critical thinking & problem solving - Collaboration - Productivity & accountability - Leadership & responsibility 	<ul style="list-style-type: none"> - Asking questions and defining problems - Developing and using models - Cause and Effect - Energy and matter: flows, cycles, and conservation - Stability and Change - Scientific Models, Laws, Mechanisms, and Theories Explain Natural Phenomena - Science is a Human Endeavor - Addresses Questions About the Natural and Material World - Interdependence of science 	<ul style="list-style-type: none"> - Systems, order, and organization - Evidence, models, and explanation - Scientific inquiry - Organisms and environments - Types of resources - Changes in environments 	<ul style="list-style-type: none"> - Working with models and simulations - Humans and their societies - Analyzing and investigating environmental issues - Decision-making for environmental issues - Citizenship