

Full Day Environmental Education Programs

– Activities and Links to the Ontario Curriculum for JK-8

Grade	Program name	Curriculum Links	Activities
Jk/SK	Kinder-discover	<p>Social Development</p> <ul style="list-style-type: none"> Identify and use social skills in play and other contexts <p>Emotional Development</p> <ul style="list-style-type: none"> Demonstrate an awareness of their surroundings <p>Science and Technology</p> <ul style="list-style-type: none"> Demonstrate an awareness of the natural and built environment Conduct simple investigations through free exploration, focused exploration, and guided activity, Demonstrate an understanding of the natural world and the need to care for and respect the environment 	<ul style="list-style-type: none"> Short hike to discover more about plants and animals around us; Camouflage Game Scavenger Hunt Leaf Rubbings Animal Talk – Introduction to local animals Story - <i>Samuel's most important message</i> with a craft OR Pond Study to follow up story Junior Survival Game
1	Needs of Living Things	<p>Science and Technology</p> <p>Needs and Characteristics of Living Things</p> <ul style="list-style-type: none"> Assess the role of humans in maintaining a healthy environment Investigate needs and characteristics of plants and animals Demonstrate an understanding of the basic needs and characteristics of plants and animals <p>Understanding Matter and Energy</p> <ul style="list-style-type: none"> Demonstrate an understanding that energy is something that is needed to make things happen, and that the sun is the principle source of energy for the earth 	<ul style="list-style-type: none"> Hike – exploring needs and characteristics of plants and animals; Camouflage Game Decomposer Game Leaf Rubbing/Bark Rubbing Animal Talk – characteristics of animals Pond study – characteristics of animals Bat and Moth Game Junior Survival Game
1	A Season of Change	<p>Science and Technology</p> <p>Daily and Seasonal Changes</p> <ul style="list-style-type: none"> Assess the impact of daily and seasonal changes on living things Investigate daily and seasonal changes Demonstrate an understanding of what daily and seasonal changes are and of how these changes affect living things <p>Needs and Characteristics of Living Things</p> <ul style="list-style-type: none"> Investigate needs and characteristics of plants and animals 	<ul style="list-style-type: none"> Hike – seasonal changes Animal Talk – seasonal changes Squirrel Game Chickadee Chatter Game Story - <i>Butterfly Wishes</i> Migration Frustration Game (Monarch migration)
2	Creatures Grow and Change	<p>Science and Technology</p> <p>Growth and Changes in Animals</p> <ul style="list-style-type: none"> Assess ways in which animals have an impact on 	<ul style="list-style-type: none"> Hike- characteristics and adaptations of animals, human impact; Camouflage and other games on the trail

		<p>society and the environment, and ways in which humans have an impact upon animals and the places where they live</p> <ul style="list-style-type: none"> • Investigate similarities and differences in the characteristics of various animals • Demonstrate an understanding that animals grow and change and have distinct characteristics 	<ul style="list-style-type: none"> • Bear Necessities Game OR Migration Manoeuvres Game (importance of wetlands in bird migration) • Pond Study – life cycles • Story – <i>Eggbert’s Dragon Dream</i> OR Animal Talk – adaptations • Survival Game <p>Option for identifying local Birds</p> <ul style="list-style-type: none"> • Bird identification and call activity • Find Your Mate - Bird call matching game
2	Air and Water Matter	<p>Science and Technology Air and Water in the Environment</p> <ul style="list-style-type: none"> • Assess ways in which the actions of humans have an impact on the quality of air and water, and ways in which the quality of air and water has an impact on living things • Investigate the characteristics of air and water and the visible/invisible effects of and changes to air and/or water in the environment • Demonstrate an understanding of the ways in which air and water are used by living things to help them meet their basic needs 	<ul style="list-style-type: none"> • Hike – water conservation, wetlands, and human impact • Watershed Woes - Water table demonstration • Pond Study with an introduction to bio-indicators of water quality • Wetlands demonstration • Carbon Dioxide Tag • Story - <i>Boomer Rules</i> • 3 Strikes You’re Out Froggy! Game
2 and 3	How to “Bee” a Pollinator	<p>Science and Technology Grade 2: Growth and Changes in Animals</p> <ul style="list-style-type: none"> • Assess ways in which animals have an impact on society and the environment, and ways in which humans have an impact upon animals and the places where they live • Investigate similarities and differences in the characteristics of various animals • Demonstrate an understanding that animals grow and change and have distinct characteristics <p>Grade 3: Growth and Changes in Plants</p> <ul style="list-style-type: none"> • Assess ways in which plants have an impact on society and the environment, and ways in which human activity has an impact on plants • Investigate similarities and differences in the characteristics of various plants, and ways in which the characteristics of plants relate to the environment in which they grow 	<ul style="list-style-type: none"> • The Amazing Bee • Story Hike – <i>Melissa’s Magnificent Message</i> • Pollination Game • Bee Simulation Game • Flower Discovery • Pollination Tag
3	Meet a Tree	<p>Science and Technology Growth and Changes in Plants</p> <ul style="list-style-type: none"> • Assess ways in which plants have an impact on society and the environment, and ways in which human activity has an impact on plants • Investigate similarities and differences in the characteristics of various plants, and ways in 	<ul style="list-style-type: none"> • Hike - tree identification, needs and characteristics of plants and trees • Decomposer + Game • Meet Your Tree activity • Tree Discussion • Tree Tag Game • Survival Game

		<p>which the characteristics of plants relate to the environment in which they grow</p> <ul style="list-style-type: none"> • Demonstrate an understanding that plants grow and change and have distinct characteristics 	
3	Don't Treat Soil Like Dirt!	<p>Science and Technology Soils in the Environment</p> <ul style="list-style-type: none"> • Assess the impact of soils on society and the environment, and of society and the environment on soils • Investigate the composition and characteristics of different soils • Demonstrate an understanding of the composition of soils, the types of soils, and the relationship between soils and other living things 	<ul style="list-style-type: none"> • Hike – soil composition, characteristics, formation and human impact • Soil Study – profile and absorption study of disturbed and undisturbed areas • Wiggling Water Game • Vermicompost introduction and worm feeding • Food Chain Tag Game • PSYCHO – Soil Scavenger Hunt Activity
4	At Home in the Habitat	<p>Science and Technology Habitats and Communities</p> <ul style="list-style-type: none"> • Analyse the effects of human activities on habitats and communities • Investigate the interdependence of plants and animals within specific habitats and communities • Demonstrate an understanding of habitats and communities and the relationship among the plants and animals that live in them 	<ul style="list-style-type: none"> • Hike – interdependence, communities and habitats; Camouflage Game • Animal Talk, OR Skull Study, OR Who's Been Here? (scat and tracks study) • Oh Deer Game (carrying capacity) • Survival Game • Pond study – community/adaptations • Jobs in a Biotic Community (quadrat study) • Web of Life OR Story – <i>Boomer Rules</i> and habitat discussion
5	Changing Climate	<p>Science and Technology Conservation of Energy and Resources</p> <ul style="list-style-type: none"> • Analyse the immediate and long-term effects of energy and resource use on society and the environment, and evaluate options for conserving energy and resources • Investigate energy transformation and conservation 	<ul style="list-style-type: none"> • Hike – human impact topics • Eco-footprint Quiz • Greenhouse Gas Game • Climate Change Metaphors Activity • Climate Change Scavenger Hunt
6	Diversity of Living Things	<p>Science and Technology Biodiversity</p> <ul style="list-style-type: none"> • Assess human impacts on biodiversity, and identify ways of preserving biodiversity • Investigate the characteristics of living things, and classify diverse organisms according to specific characteristics • Demonstrate an understanding of biodiversity, its contributions to the sustainability of natural systems, and its benefits to humans 	<ul style="list-style-type: none"> • Hike – with tree key • Invasive Species Game • Pond study with classification keys OR Quadrat Study OR Skull Study • Space for Species • Survival Game <p>Option for identifying local Birds</p> <ul style="list-style-type: none"> • Bird identification and call activity • Find Your Mate - Bird call matching game
7	Web of Life	<p>Science and Technology Interactions in the Environment</p> <ul style="list-style-type: none"> • Assess the impacts of human activities and technologies on the environment, and evaluate ways of controlling these impacts • Investigate interactions within the environment, 	<ul style="list-style-type: none"> • Hike – ecosystem interactions, human impact • Contamination Game OR Predator/Prey Game • Web of Life Activity OR Fallen Log Study OR Quadrat Study (succession)

		<p>and identify factors that affect the balance between different components of an ecosystem</p> <ul style="list-style-type: none"> • Demonstrate an understanding of the interactions between and among biotic and abiotic elements in the environment 	<ul style="list-style-type: none"> • Survival Game +
8	World of Water	<p>Science and Technology</p> <p>Water systems</p> <ul style="list-style-type: none"> • Assess the impact of human activities and technologies on the sustainability of water resources • Investigate factors that affect local water quality • Demonstrate an understanding of the characteristics of the earth's water systems and the influence of water systems on a specific region 	<ul style="list-style-type: none"> • Hike – water conservation, wetlands, and human impact • Water Table Demonstration of Sudbury area history • Dragonfly Pond Activity • Pond Study – bio-indicators of water quality and pH testing • Water Contamination Game
Grade 3-8	Survivor – Lake Laurentian	<ul style="list-style-type: none"> • These activities are not based on the curriculum of a specific grade level, but incorporate elements from Science and Technology, Social Studies, and Health and Physical Education, as well as building teamwork and co-operative learning skills. 	<ul style="list-style-type: none"> • Hike - Basic needs of survival • Edible Plant Game • Make “Wild” tea • Shelter building activity • Map Game • Compass skills (Grade 5-8)
Grade 5-8	CSI - Lake Laurentian	<ul style="list-style-type: none"> • These activities are not based on the curriculum of a specific grade level, but incorporate elements from Science and Technology, Social Studies, and Health and Physical Education, as well as building teamwork co-operative learning, and critical thinking skills. 	<ul style="list-style-type: none"> • Soil composition workshop • Leaf patterns/tree identification hike and activity • Lake/pond debris activity • Who-Dunnit? Activity
Grade 5-8	GPS Adventures Half day program	<ul style="list-style-type: none"> • These activities are not based on the curriculum of a specific grade level, but incorporate elements from Science and Technology, Social Studies, and Health and Physical Education, as well as building teamwork co-operative learning, and critical thinking skills. 	<ul style="list-style-type: none"> • Introduction to GPS • Find that Egg! - How to Find and Mark a location • GPS Course – Using coordinates to find a location • GPS Choose Your Own Adventure
Grade 4-8	Art in Nature	<ul style="list-style-type: none"> • These activities are not based on the curriculum of a specific grade level, but incorporate elements from the Visual Arts curriculum. 	<ul style="list-style-type: none"> • Introduction to Colours • I Spy Colours Hike • Patterns in Nature • Patterns Scavenger Hunt • Make your Nature Masterpiece