

Wetland BINGO

Grade 2 – Science and Technology



Lesson Details

Grade Level:	2	Curriculum Links:	Science and Technology	Time Needed:	2 hours
Learning Goal	To learn about wetlands, their importance, and the life within them.				
Success Criteria	By the end of this lesson, students will have visited a wetland, and gained knowledge about the life within it. Students will understand the importance of wetlands.				
Specific Expectations	<p><i>Understanding Life Systems: Growth and Changes in Animals</i></p> <ul style="list-style-type: none"> Identify positive and negative impacts that different kinds of human activity have on animals and where they live, form an opinion about one of them, and suggest ways in which the impact can be minimized or enhanced; Observe and compare the physical characteristics and the behavioural characteristics of a variety of animals, including insects, using student-generated questions and a variety of methods and resources. 				
Materials Needed	BINGO Card (attached), Worksheet (attached), Pencil, Appropriate Outdoor Clothing (Rainboots), Small Nets (optional).				

Lesson Description


















Overview	Students will visit a wetland and observe the life within it by using a BINGO card to search for different living and non-living things.
Activity	<ol style="list-style-type: none"> First, introduce wetlands and their importance to the class. Explain how wetlands are nature's water filters. Next, choose a local wetland to visit. This can be a pond, marsh, swamp, bog, etc. Ensure the students are prepared with proper clothing and footwear (rubber boots are a good idea). Each student should be given a BINGO card and a pencil. Optional: you can make the BINGO card part of a game, first student to get a BINGO wins a prize. You may bring small nets to help students view creatures in the water but remember to always leave nature where you found it (do not take anything you did not already arrive with). This activity can be as long or as short as you'd like it to be. Once you have returned from the wetland to the classroom, have the students complete the attached worksheet; this will prompt students to think about what they have seen in the wetland.
Background Information	Wetlands are crucial to the health of water systems. If a wetland was part of the human body, it'd be known as our kidneys. They filter water and regulate the distribution of its flow. Without wetlands, bacteria and other pollutants would flow directly into our lakes and rivers. It is important to note that wetlands are also a home to many species, not just plants. Turtles are most often found in wetlands. They are considered keystone species, in other words, incredibly valuable and integral to the health of the water. Likewise, wetlands provide a home for animals and contribute to their overall well-being. Wetlands teach us the relationships between the environment, plants, and animals.
Blacklist Masters	<ul style="list-style-type: none"> BINGO Card (attached) Worksheet (attached) Video Link(s): Wetlands and Turtles in Ontario

Lesson Description

	<ul style="list-style-type: none"> For more information, please visit https://www.turtleguardians.com/sample-page/turtle-habitats/
Place-Based Learning	Learning outdoors at a local wetland and independently in a classroom. Students will have first-hand experience walking through a local wetland and witnessing the wildlife within it. Having this knowledge will allow the students to become more conscious about the environment and how life within it is connected.
Inquiry-Based Learning	<p>Using Confirmation and Open Inquiry, students will use their observational skills to investigate the different aspects of a wetland and later confirm the importance of wetlands.</p> <p>Ask the students:</p> <ul style="list-style-type: none"> What is a wetland? Why are wetlands important? How do humans impact wetlands? How can we help to keep wetlands healthy and clean?
Turtle Stories	What are the different components of a wetland? Try creating your own mini wetland in a bottle by collecting various materials such as soil, rocks, leaf litter, and water. Students are encouraged to share their experiences, pictures, and worksheets on the Turtle Stories website, found here: https://www.turtlestories.ca/
Turtle Guardian Program Links	After completing Level 1 (Ontario Turtle Identification) of the Turtle Guardian Program , students can move onto Level 2 (Wetland Watchers). In this level the students learn how to monitor wetland habitats, contribute to knowledge of wildlife-biology in the region, and are able to adopt a wetland to monitor for turtles, birds, and other animals. For more information, please visit https://www.turtleguardians.com/what-is-a-turtle-guardian/

My Notes



B	I	N	G	O
 Signs of a Turtle Nest	 Algae	 Aquatic Insect	 Songbird	 Fish
 Animal Signs	 Tadpole	 Dragonfly	 Frog	 Signs of Human Impact
 Turtle	 Butterfly	 Free Space	 Wetland Bird	 Aquatic Plant
 Wildflower	 Find Some Litter and Pick It Up	 Coniferous Tree	 Mammal	 Seed
 Places to Hide	 Leaf	 Fruit	 Snake	 Deciduous Tree



Wetland Worksheet

1

How do you think humans have impacted the wetland you visited?

2

How do wetlands impact humans?

3

Compare 2 different animals or plants that you saw. How do they look different? How do they behave differently?

4

Pick a plant or animal that you saw. What characteristics does it have that allows it to live in a wetland?