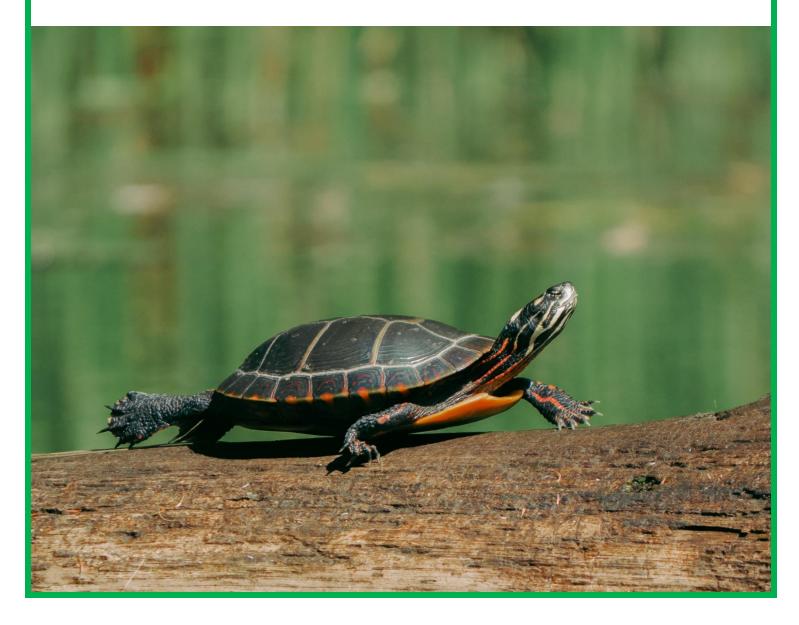
Turtle Characteristics

Grade 2 – Science and Technology





Turtle Characteristics



Lesson Details

Grade Level: 2	Curriculum Links:	Science and Technology	Time Needed:	30 minutes
	57			
Learning Goal	To gain an understanding of how characteristics relate to function, and how living the			now living things
	adapt to their environments.			
Success Criteria	By the end of this lesson, students will understand the characteristics of a turtle.			
	Students will be able to define adaptation and give examples.			
Specific	Understanding Life Systems: Growth and Changes in Animals			
Expectations	Observe and compare the physical characteristics and the behavioural			
	characteristic	s of a variety of animals, inclu	ding insects, using st	udent-
	generated questions and a variety of methods and resources;			
	Identify and describe major physical characteristics of different types of			
	animals;			
	Describe an adaptation as a characteristic body part, shape, or behaviour that			
	helps a plant or animal survive in its environment.			
Materials	Worksheet (attached), Pencil.			
Needed				

Lesson Description

Overview Students will learn about the general characteristics of turtles and different adaptation they have in order to survive. 1. Start by asking the students "how do animals adapt to changing environments 2. Discuss the characteristics of humans – we have thumbs, but some animals do not. Why are thumbs useful to us? 3. Further the discussion by asking the students about the characteristics of a turn that they have the first but have an adapted.	?".
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	tle.
Why do toutle have the lie by thousand and 2	
Why do turtles have shells, but humans don't?	
4. Next, hand out the attached worksheet and have the students independently	
complete it.	
5. You may choose to go over the worksheet as a class once complete.	
Background The 8 different turtle species that are native to Ontario share similar characteristics,	ut
Information the size of these body parts varies depending on the species use for it. For example,	he
Painted Turtle has a large plastron, allowing them to pull their arms, legs, and head in	to
their shell when scared. But the Snapping Turtle has a small plastron which does not	
allow for them to pull their limbs in to hide – instead the snapping turtles 'snaps' to	
protect itself.	
The top shell of a turtle is called a carapace . The underside of a turtle is called a	
plastron. Many turtles have distinct carapace shapes (high domed like the Blanding's	
Turtle) or markings (like spots on the Spotted Turtle) that can be used to identify the	
The triangular (or geometric) sections on the carapace are known as scutes . Margina	
scutes are found around the carapace and ridges are the nodes (or connections)	
between them.	
• Worksheet (attached)	
Video Link(s): Ontario Turtle Identification	

Lesson Description

	 For more information, please visit https://www.turtleguardians.com/sample-
	page/id-turtles/
Place-Based	Students are encouraged to visit a wetland or other natural area to try to spot the
Learning	turtles they have learned about in their native environment. Students should try to
	identify the turtle's characteristics. Which Ontario turtles is local to their community?
Inquiry-Based	Using Guided Inquiry , the students will work independently to complete the workshop
Learning	and learn about the various characteristics of a turtle, along with adaptations.
	Ask the students:
	How do animals adapt to changing environments?
	What body parts on a turtle help it to live within its environment? (E.g. Why
	does a turtle have a shell? What's the purpose of it?)
Turtle Stories	Try to use different materials to create a turtle based on the characteristics you learned
	about. Try making a turtle from only recyclables, popsicles sticks, rocks, etc. Students
	are encouraged to share their experiences, pictures, and worksheets on the Turtle
	Stories website, found here: https://www.turtlestories.ca/
Turtle Guardian	In Level 1 (Ontario Turtle Identification) of the Turtle Guardian Program, students will
Program Links	learn how to identify all 8 species of Ontario's turtles. For more information, please visit
	https://www.turtleguardians.com/what-is-a-turtle-guardian/

My Notes







Match the Characteristics with the Purpose:

Extra Eyelid

Like a rudder on a boat, helps them to steer when swimming

Long Tail

For swimming fast

Hard Shell

Helps them to see underwater, like built in goggles

Webbed Feet

Protection

Turtles <u>hibernate</u> at the bottom of lakes and large wetlands in the winter. They <u>bury</u> themselves in the mud to keep warm. How do they <u>breathe</u> under the water all winter? The answer below may surprise you!

Word Bank:

Breathe

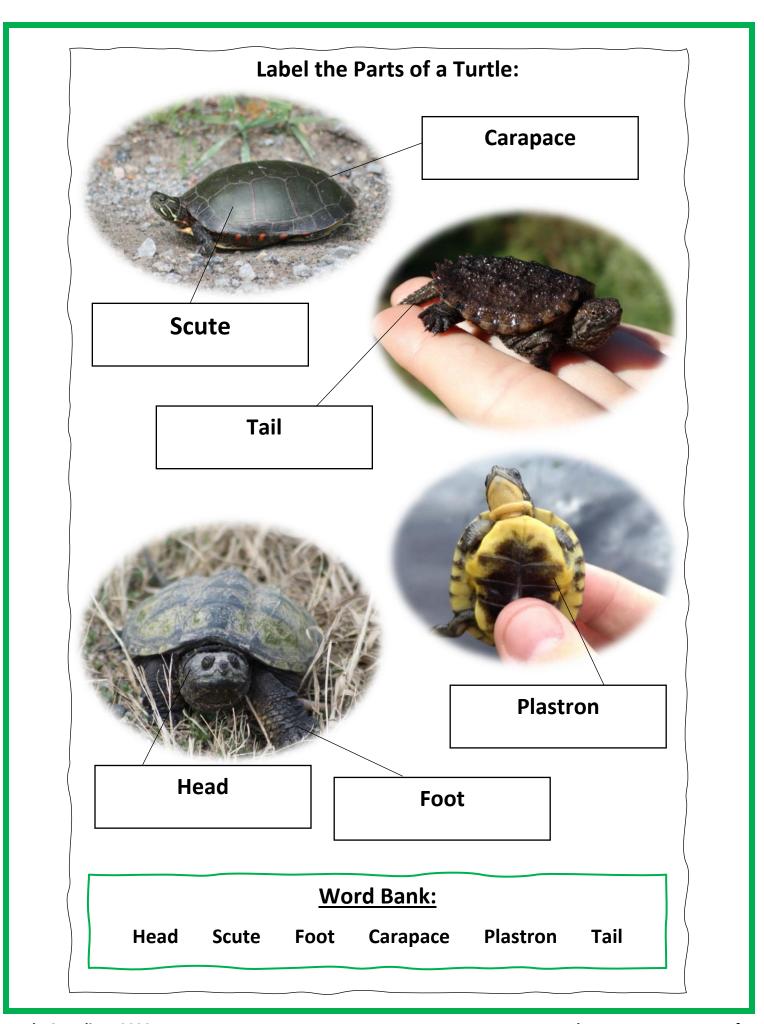
Hibernate

Bury



We breathe through our butts!

Turtles have special blood vessels
that allow us to take oxygen out of
the water.



Let's Learn a New Word. Can You Trace:



Adaptation → Features or traits that help living things survive. Giraffe's have long necks to reach leaves that are high up in trees. Just like how a giraffe adapts to reach the leaves, turtles have adaptations too!

Circle the Correct Adaptation:

When a Painted Turtle is scared, it will...

Hide in its shell

OR

Run away

When a Snapping Turtle is scared, it will...

Hide in its shell

OR

Snap to look scary

A Map Turtle eats clams using...

A powerful jaw with a thick beak

OR

Rows of sharp teeth







Match the Characteristics with the Purpose	Match	the	Chara	cteristics	with	the	Pur	pose
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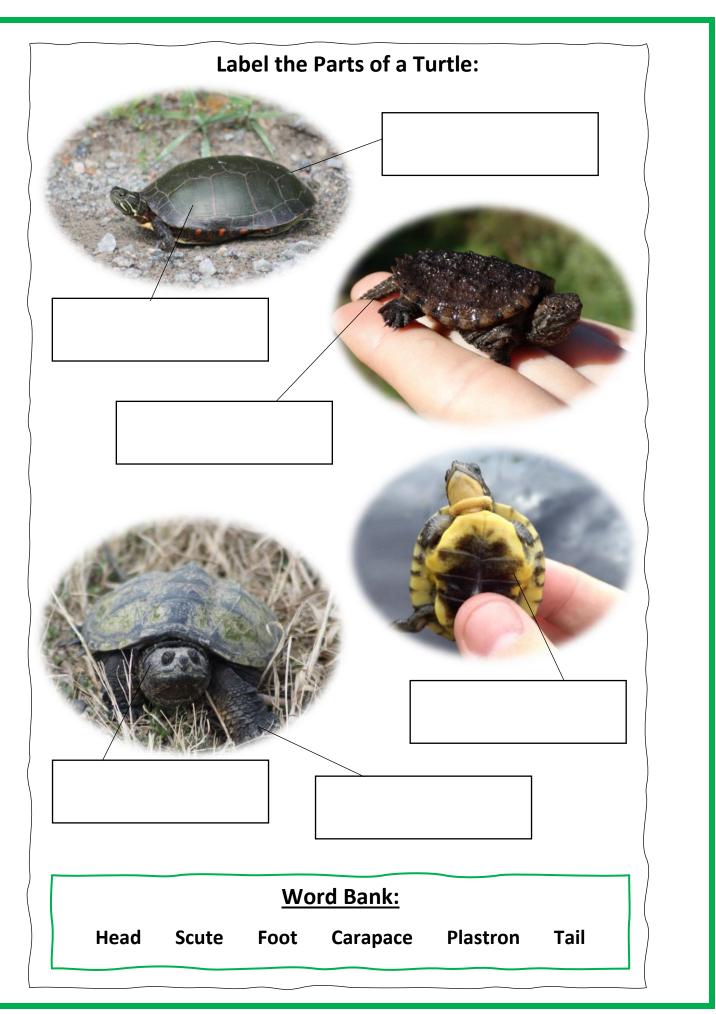
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