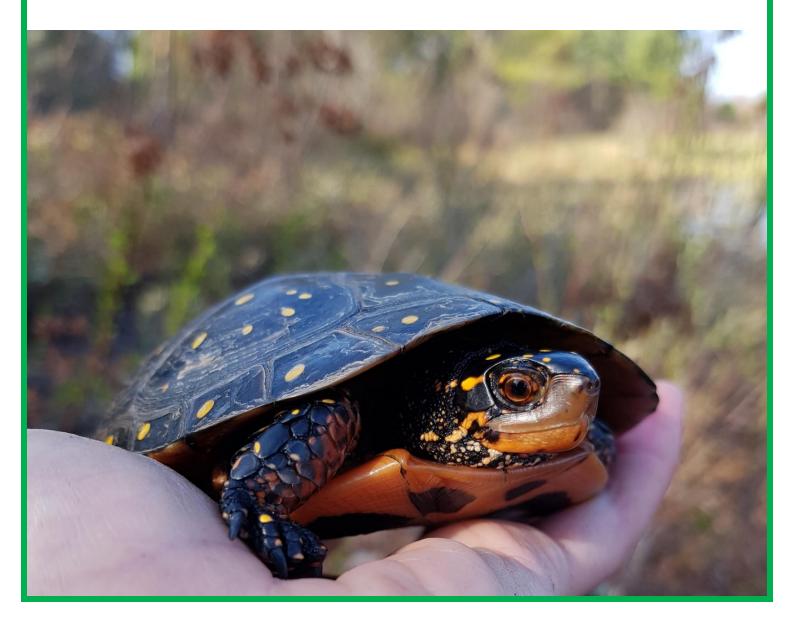
# What Can Be Done?

Grade 8 – Science and Technology





### What Can Be Done?



### **Lesson Details**

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Grade Level:   8	Curriculum Links:	Science and Technology	Time Needed:	5 hours
<b>Learning Goal</b>	To work together to cre	eate an initiative to be implemen	ted at the school re	egarding
	solutions to environmental issues that could benefit the local community, themselves,			
	and future generations	S.		
Success Criteria	By the end of this lesson, students will have created an interdisciplinary group project			
	that raises awareness of issues in the environment and provided appropriate solutions			
	to these issues.			
Specific	Understanding Structu	res and Mechanisms: Systems in A	Action	
Expectations	<ul> <li>Assess the person</li> </ul>	sonal, social, and/or environment	cal impacts of a syst	em, and
	evaluate impro	ovements to a system and/or alte	rnative ways of me	etings the
	same needs;			
	<ul> <li>Identify social</li> </ul>	factors that influence the evolution	on of a system (e.g.	, growing
	concern over t	he amount of waste creates a nee	ed for recycling cen	tres, and the
	recycling centr	es must grow as population and v	waste increase;).	
Materials	Worksheet (attached),	Pencil, Computer, Internet Acces	S.	
Needed				

### **Lesson Description**

Overview	Students will utilize project management skills to research, plan, and implement a
	solution-based project to provide aid to local environmental concerns.
Activity	1. Begin by asking students "given what you know about turtles, wetlands, and
	our influence on them, how can we improve turtle populations and habitats?".
	2. Distribute the attached worksheet and split the class into small groups.
	3. Students will then begin their research. They will research ways in which they
	individually, and humans in general, can alter behaviours to minimize
	detrimental impacts on turtle populations. Students should then make a list, or
	a visual representation of problems facing turtles and relate a variety of
	solutions to each. Students will then assess the positive and negative impacts
	each solution might have.
	4. Next, students will choose one initiative to move forward with from the list they
	created. Their chosen initiative should align with SMART goals.
	5. Students will create a plan, with instructor support, for a turtle protection
	initiative and create a presentation illustrating how it will be implemented.
	6. Throughout the course of the project, the instructor should plot check-in points
	with each group to assure they are on track and progressing towards their
	SMART goals.
	7. After completing their project, students should prepare to present their findings
	to the class.
	8. Students will assess their work and complete a peer evaluation.
	9. Although this marks the end of the project research and planning, it is up to the
	instructor and students if they wish to go further with their project and carry it
	through to help the environment.

### **Lesson Description**

Blacklist Masters	Worksheet (attached)
	<ul> <li>Video Link(s): <u>How You Can Help Ontario Turtles</u> and <u>Threats to Ontario Turtles</u></li> </ul>
	<ul> <li>For more information, please visit <a href="https://www.turtleguardians.com/why-">https://www.turtleguardians.com/why-</a></li> </ul>
	saving-turtles-is-important/
Place-Based	Students will research local environmental issues and solutions that can/have been
Learning	implemented. Students then have the option to implement their own project-based
	solutions to better their local wildlife.
Inquiry-Based	Using <b>Guided Inquiry</b> , the students will use project management skills to complete a
Learning	group project to create solutions to local environmental problems.
	Ask the students:
	What do you know about turtles, wetlands, and our influence on them?
	How can we improve turtle populations and habitats?
	What local conservation efforts are in place to help turtles?
	What other solutions can you think of?
<b>Turtle Stories</b>	Visit a wildlife centre to find out how they help the local wildlife, especially turtles, and
	to learn about what your community is doing to help improve the environment.
	Students are encouraged to share their experiences, pictures, and projects on the Turtle
	Stories website, found here: <a href="https://www.turtlestories.ca/">https://www.turtlestories.ca/</a>
<b>Turtle Guardian</b>	After completing Level 1 (Ontario Turtle Identification) of the Turtle Guardian Program,
Program Links	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 <a href="https://www.turtleguardians.com/what-is-a-turtle-">https://www.turtleguardians.com/what-is-a-turtle-</a>
	guardian/

## My Notes





# What Can Be Done?

Group Members:
<u>Research</u>
How can we improve turtle populations and habitats?
How do you individually, and humans in general, alter behaviours to minimize detrimental impacts on turtle populations?
Make a list or visual representation of problems facing turtles and relate a variety of solutions to each. Then assess the positive and negative impacts each solution might have.
Are there similar solutions for various problems?
Do any of the solutions create other issues (to the environment or human society)?
What is the result of a sustainable solution?
Are these solutions long-term? How do we implement them?



#### **Planning**

Choose one initiative to move forward with from the list you just created. Your initiative should align with SMART goals (Specific, Measurable, Attainable, Relevant, Time Based)
Which initiative did you choose? Why?
What conservation efforts currently exist for turtles in your local area?
What are some challenges of turtle conservation in your area?
What could cause the initiative to fail?
Who can help you in your conservation efforts?
Touch base with your instructor and plan check-in points as you continue your planning and implementation process.
Check-in points:Additional Notes:



#### <u>Implementation</u>

Create a presentation outlining your SMART goals and planned initiative for turtle conservation in your local area.
How does your initiative work?
Who is involved in your initiative?
How does your SMART goals fit into your initiative plan?
Compare your initiative to an existing conservation plan – what is different about yours? What is similar?
Where will your initiative take place?
Who/what is affected by your initiative?



#### **Reflection**

What do you think your group did well? What did each group member contribute to the project?			
ooking at your planned initiative, what do you think worked well? What didn't?			
f you were to do this project again, what would you change? What would you repeat	?		
Any additional notes for the instructor?			