

Mangroves- Teacher's Resource

Objective: For students to explore the current environmental issues in Ontario, Canada and around the world.

Materials Needed:

- Student activity sheets (provided below)
- Computers, phones, tablets, etc.
- Teacher resource (provided)

Time Needed:

- Approximately 1 class period

Prep:

- Complete one of the following lessons:
 - Geography: A. Physical Patterns in a Changing World
 - Geography: B. Natural Resources around the World: Use and Sustainability
 - Science: A. Understanding Structures and Mechanisms
 - Science: B. Understanding Matter and Energy

- Book computer lab, computer carts, etc.
- Print off student activity sheets (1 per person)

Guiding Questions:

- Why do different people have different responses to the environment and the opportunities and challenges it presents?
- Why do we need to consider various perspectives when determining the impact of human activities?
- Why would people continue to use methods that contribute to destroying our environment when there are more environmentally safer ways?
- Why is it important for companies to find out what consumers want now and what they might want and/or need in the future?
- What would be the impact on depleted fisheries in a developing nation versus Canada?

Execution:

- Organize students into groups of 3 to 4
- Hand out student activity sheets
- Have students use the provided websites to access the information
- Once students are complete teh activity sheet, discuss as a class, or have them hand in (answers are provided for you in the teacher resource, please

note, students do not have to answer word for word, as long as they have the general idea)

Integrated Expectations across subject matters:

Language: Reading

- **Read and demonstrate an understanding of informational texts using a range of strategies to construct meaning.**

Language: Media Literacy

- **Use overt and implied messages to draw inferences and construct meaning in media texts;**
- **Identify whose point of view is presented or reflected in a media text, citing supporting evidence from the text, and suggest how the text might change if a different point of view were used.**

Science

- **Analyze the effects of human activities on habitats and communities.**

Resources used:

Videos

M. (2014, April 12). Importance of Mangrove Forests. Retrieved January 02, 2021, from https://www.youtube.com/watch?v=KhLIqdPB_Rs

ChangingSeasTV. (2016, December 16). Seagrasses and Mangroves - Full Episode. Retrieved January 02, 2021, from <https://www.youtube.com/watch?v=9mb4wE3Uifs>

MAPmangrover. (2019, March 21). Restoring The Natural Mangrove Forest. Retrieved January 02, 2021, from <https://www.youtube.com/watch?v=Vh7CoPBLQa8>

Websites

E. (2020, December 22). Recovery stimulus packages are causing harm to nature. Retrieved January 02, 2021, from <https://environment-analyst.com/global/106352/recovery-stimulus-packages-are-causing-harm-to-nature>

Shimbun, P. (2020, December 04). In rare show of solidarity, 14 key nations commit to protect oceans. Retrieved January 02, 2021, from <https://www.nationalgeographic.com/environment/2020/12/in-rare-show-of-solidarity-14-key-nations-commit-to-protect-oceans/>

K. (2020, July 06). The More You Know: Mangroves. Retrieved January 02, 2021, from <https://www.ripleyaquariums.com/canada/the-more-you-know-mangroves/>

Newspaper Articles

Baggaley, K. (2020, June 5). Mangrove plants flourish on coastlines, but rising seas may outpace them by 2050. Retrieved January 02, 2021, from <https://www.popsci.com/story/health/mangrove-trees-climate-change/>

Authorship, S., Mikhail, S., & Secretariat, N. (2020, December 21). 5 pillars of a new ocean agenda. Retrieved January 02, 2021, from <https://www.greenbiz.com/article/5-pillars-new-ocean-agenda>

Dean-Simmons, B. (2020, December 03). Canadians to get say on how to grow Blue ocean economy: The Journal Pioneer. Retrieved January 02, 2021, from <https://www.journalpioneer.com/business/local-business/canadians-to-get-say-on-how-to-grow-blue-ocean-economy-527261/>

Government Sources

U. (n.d.). Oceans – United Nations Sustainable Development. Retrieved January 02, 2021, from <https://www.un.org/sustainabledevelopment/oceans/>