Return of the wolves: Isle Royale National Park "Lessons from the wilderness" High School

Sources and Resources

Sources Used:

"Arctic Sea Ice Minimum." *NASA*, NASA, 29 Nov. 2021, https://climate.nasa.gov/vital-signs/arctic-sea-ice/.

Brunsell, Eric. "Designing Science Inquiry: Claim + Evidence + Reasoning = Explanation." *Edutopia*, George Lucas Educational Foundation, 25 Sept. 2012, https://www.edutopia.org/blog/science-inquiry-claim-evidence-reasoning-eric-brunsell.

Calacademy. "Genes and Biodiversity." *YouTube*, YouTube, 30 Dec. 2014, https://www.youtube.com/watch?v=XOxsjdB4-ZQ.

"File:Trophic Cascade 1.SVG." Wikimedia Commons, https://commons.wikimedia.org/wiki/File:Trophic Cascade 1.svg.

History of Ice on Lake Mendota, https://www.aos.wisc.edu/~sco/lakes/Mendota-ice.html.

"Next Generation Science Standards." Next Generation Science Standards, 9 Dec. 2021, https://www.nextgenscience.org/.

"Parkplanning." *National Parks Service*, U.S. Department of the Interior, https://parkplanning.nps.gov/document.cfm?parkID=140&projectID=59316&documentID=76680.

"The Population Biology of Isle Royale Wolves and Moose: An Overview." The Population Biology of Isle Royale Wolves and Moose: An Overview | The Wolves and Moose of Isle Royale, https://isleroyalewolf.org/data/data/home.html.

"Promoting Discussion in the Science Classroom Using Gallery Walks." NSTA, https://www.nsta.org/resources/promoting-discussion-science-classroom-using-gallery-walks.

"Rabbits and Wolves." *Interactivate: Rabbits and Wolves*, http://www.shodor.org/interactivate/activities/RabbitsAndWolves/.

StudentReportingLabs. "Wolves of Isle Royale." *YouTube*, YouTube, 1 Aug. 2017, https://www.youtube.com/watch?v=mlwSAvHsxrs.

Talk Science Primer - TERC. https://inquiryproject.terc.edu/shared/pd/TalkScience Primer.pdf.

"Three Stay, One Stray." *EMINTS National Center Portal*, https://portal.emints.org/store/p66/Three Stay%2C One Stray.html.

US Department of Commerce, NOAA. "Ice Cover." *Ice Cover: NOAA Great Lakes Environmental Research Laboratory - Ann Arbor, MI, USA*, https://www.glerl.noaa.gov/data/ice/#historical.

"Why Relocate Wolves to Isle Royale?" *National Parks Service*, U.S. Department of the Interior, https://www.nps.gov/isro/learn/why-relocate-wolves-to-isle-royale.htm.

"The Wolves of Isle Royale Biology Article for Students: Scholastic Science World Magazine." *Scholastic Science World*, https://scienceworld.scholastic.com/issues/2019-20/012020/the-wolves-of-isle-royale.html#810L.

Wolves of Isle Royale: Quest for Survival, National Geographic, 15 June 2021, https://www.youtube.com/watch?v=DS-4IsDg7mA. Accessed 2 Jan. 2022.

"The 'Jigsaw' Technique." *Jigsaw Strategy | Education World*, https://www.educationworld.com/a curr/strategy/strategy036.shtml.

Suggested Resources:

<u>Scholastic Science World's article "The Wolves of Isle Royale"</u> This article may be a useful extension or resource for students. It can be set for an 8th grade or 11th grade reading level.

<u>Forest Resources of Isle Royale</u> is a U.S. Forestry Service publication detailing the forest community on Isle Royale.

<u>Michigan Radio's Lessons from Isle Royale's Wolves and Moose</u> is a collection of broadcasts detailing the wolf/moose study for more than a decade.

<u>Outside Science (inside parks): Moose at Isle Royale</u> is a 4 minute video interview with student interns working with wildlife biologists, measuring the effects of moose browsing on the island. Potential for career connections.

<u>Isle Royale National Park Experience: Pure Michigan</u> is a great five minute video introduction to the island - what it looks like to visit and camp - and an overview of wildlife.

Why Relocate Wolves to Isle Royale is a good synopsis of the NPS evidence and reasoning for their decision.