# **Drifting North Polar Planetarium Experience**

### **EXPERIENCE MOSAIC ALL AROUND YOU!**



The 2019-2020 MOSAiC (Multidisciplinary Drifting Observatory for the Study of Arctic Climate) research expedition, one of the most

### THE FIELD TRIP

The Field Trip features the full-dome Drifting North films by Amy Lauren and Lianna Nixon and hands-on activities.





### ACTIVITIES

Participants choose from three hands-on activities to do at the planetarium. The Ice water challenge: a polar safety activity that teaches you how challenging it is to use your hands in frigid temperatures; **Polargram**: try on Arctic gear and pose with a polar bear using a green screen; Ice Floe Community Mural: build a map of the research site.



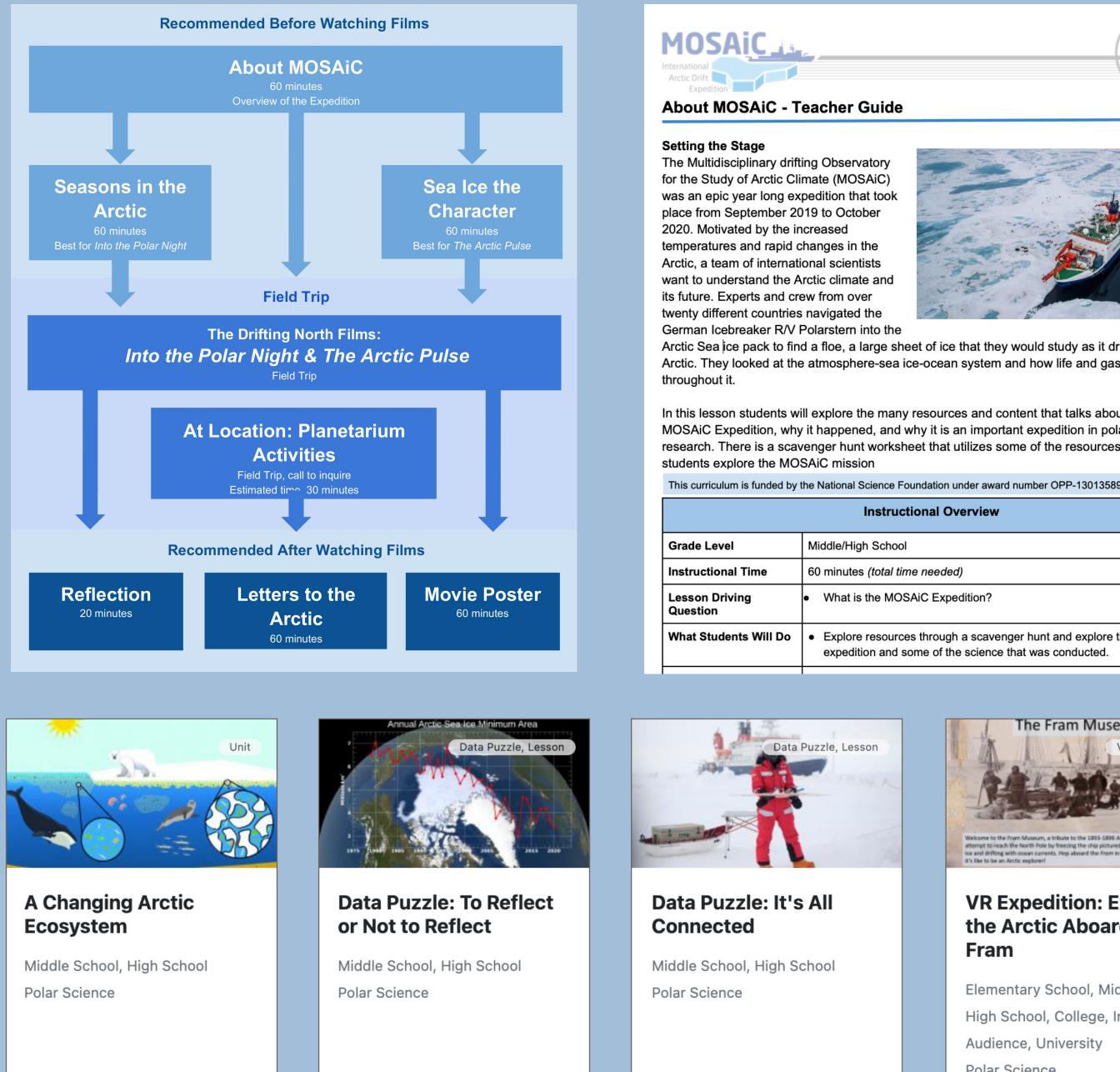
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extensive multinational Arctic expeditions ever conducted, is a testament to what can be achieved and overcome through teamwork and collaboration, creative problem solving, grit and perseverance, and curiosity.

The Drifting North Polar Planetarium Experience (DNPPE) brings together the stunning visuals collected during the MOSAiC

### **K-12 THE CURRICULA**

The field trip includes pre- and post-activities that can be used as one-off lessons in the k-12 classroom. Additionally, teachers have access virtual reality tours, Data Puzzles, units, and teacher workshops about all about MOSAiC.



mosaic.colorado.edu

Anne Gold, Jonathan Griffith, Kathleen Human, Gina Josef, Sara Morris, Lianna Nixon, Daniela Pennycook, Matthew Shupe, MOSAiC scientists and the Fiske team; CIRES MOSAIC and Chu research group grad students

expedition and the ensuing education and outreach efforts in a field trip program featuring the Drifting North films and paired activities that immerse the participants in polar science. The program is accessible to people of all ages and has supporting curricula for middle school and high school teachers who want to incorporate MOSAIC into their classrooms.



MOSAiC Expedition, why it happened, and why it is an important expedition in polar and climate

is curricularitis funded by the National Science Foundation under award humber OFT -15015505.	
Instructional Overview	
ade Level	Middle/High School
structional Time	60 minutes (total time needed)
sson Driving lestion	What is the MOSAiC Expedition?
nat Students Will Do	• Explore resources through a scavenger hunt and explore the MOSAiC expedition and some of the science that was conducted.
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**VR Expedition: Explore** the Arctic Aboard The Fram

Elementary School, Middle School, High School, College, Informal Audience, University Polar Science

## WHAT'S NEXT?

Removing barriers for schools unable to travel to Fiske. We received an OOE grant to support 21-hours of in-school programming. Fiske will take the inflatable dome to schools to who the films and facilitate the activities removing the time and cost of traveling to Fiske.

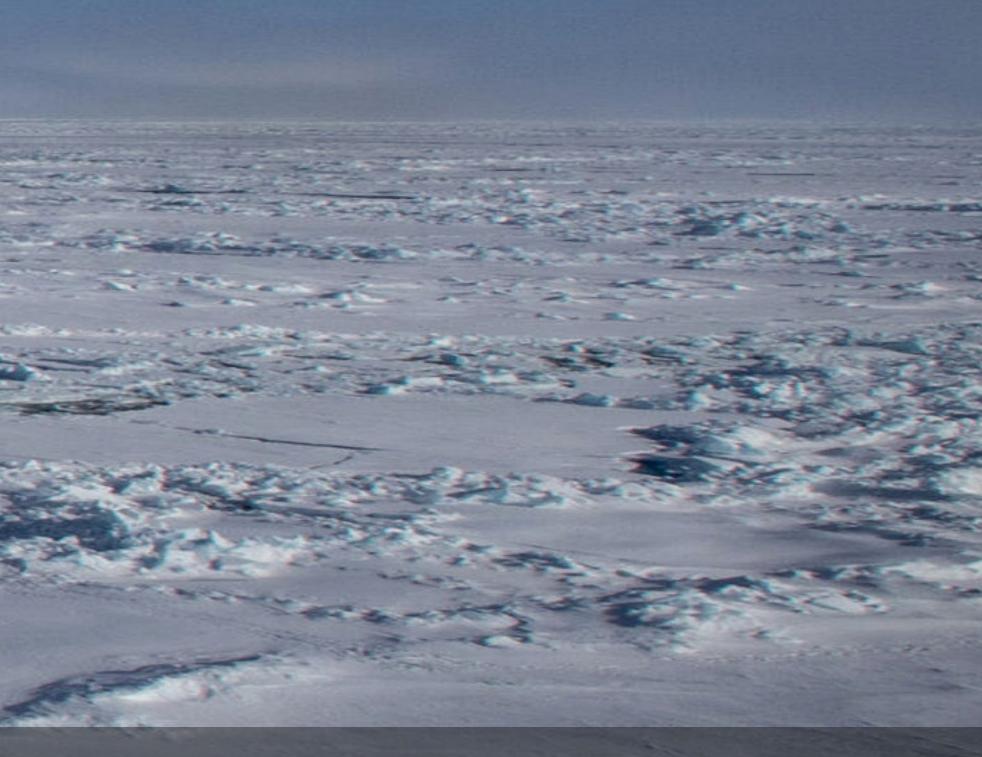


### What Students Will Do!

- Watch one of the Drifting North films
- scientists.







Engage with the MOSAIC community, planetarium educators, and each other. Participate in up to five polar-themed activities with the option to hear from polar

Learn about earth science topics holistically, diving into Social and Emotional Learning (SEL) concepts as they relate to polar science.









