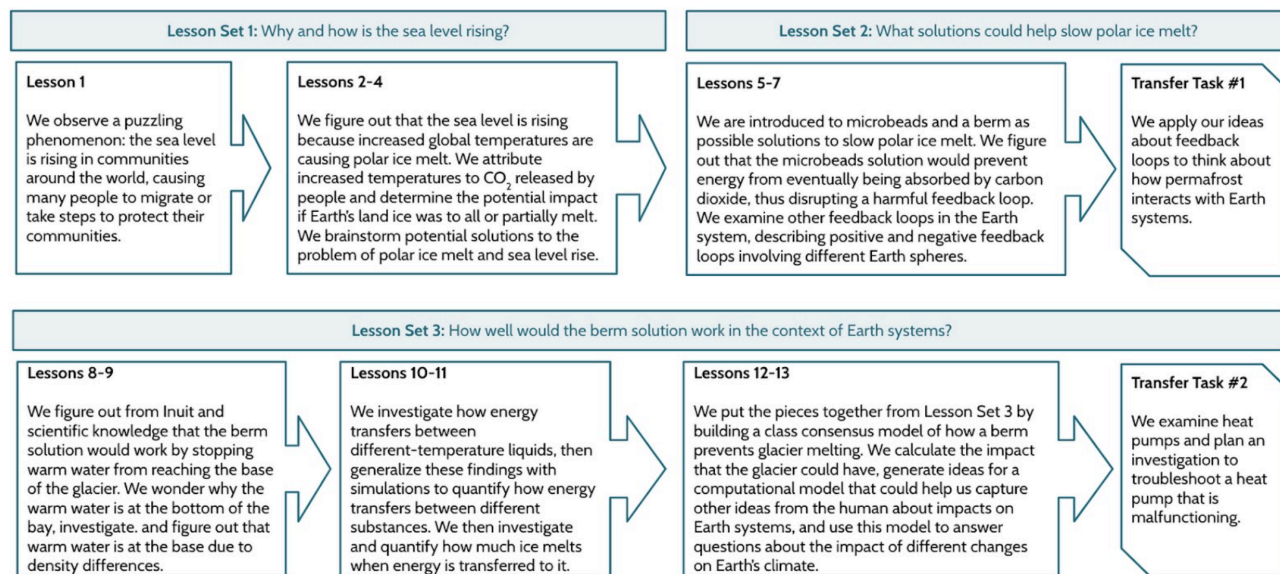


C.1 Thermodynamics in Earth's Systems



Unit Structure



Before Teaching the Unit



Watch the unit webinar.



Read the unit storyline.



Join the Facebook Group for the course.



Review the Assessment System Overview in the Unit Overview to complete the Grading Planning Tool for the unit.



Review the Unit Overview, Material List and Lesson Teacher Edition to check for the required materials and supplies necessary for the unit. Take note of these unit-specific items related to materials:

- The lesson 3 investigation requires station set up and class logistics planning due to outlet needs. Read through this investigation and plan in advance.
- Lessons 5 and 11 investigations have a more complicated setup and require a large amount of ice cubes. Read through the materials preparation section of teacher lesson guidance for suggestions and an alternate setup video.
- Lessons 9 and 10 are complicated setups, with both investigation materials and digital templates for student use. For Lesson 9, the saltwater and freshwater containers need to be prepared one day in advance. Carefully read through the materials preparation guidance and watch the teacher preparation videos for both lessons. If possible, run these investigations yourself and test digital data entries before conducting with students.

While Teaching the Unit

- Watch teacher set-up videos for investigations.
- Keeping a running record of class discoveries and investigations throughout the unit to help absent students catch up and as a reference for future years. Approaches could include a teacher version of a student notebook, or a running shared Google document.
- Organize handouts and digital materials as you go for future use.

After Teaching the Unit

- Store laminated materials for future use.
- Make notes of future revisions, modifications.
- Take pictures of posters, consensus models and exemplary student work.
- Survey students at end of unit for feedback and self-reflection.

Unit Fast Facts for Planning

Unit Length	13 Lessons, 30 Days
Lessons with Hands-On Investigations	3, 4, 6, 9, 10, 11
Lessons Requiring Student Devices	9, 10, 13

Lessons that Require In-Advance Material Preparation	Lesson 2, 3, 5 (color copies), 6, 9, 10
Lessons with Mid-Point or Summative Assessment Moments	4, 7, 9, 13