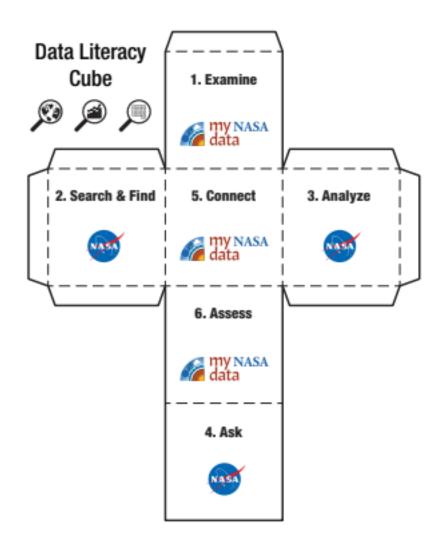
My NASA Data - Lesson Plans

Data Literacy Cube: Graph Data with Antarctic's Contribution to Sea Level Rise Graph



Overview

Use the Data Literacy Cube to guide students' exploration of data to enrich their observations and inferences. This is a flexible resource that may be used with a variety of graphical representations of data. This activity requires a graph for students to evaluate.

Learning Objectives

- observe and interpret physical characteristics of the Earth System using graphs of NASA data
- write a claim about the variables in the graph
- analyze how the phenomena changes of time and space
- · characterize the independent and dependent variables

• brainstorm the phenomena connects to other parts of the Earth System

Essential Questions

- How are the data represented in the graph?
- How do we identify a change in these data?
- How does a change in the independent variable affect the other variable?
- What relationship do you claim exists among these variables?

Materials Required

- <u>1 Cube per group/student (or die)</u>
- 1 differentiated Graph Cube Question Sheet per student
- 1 sheet of paper per student
- Pencil
- Graph (as a handout or projected on the screen)

Teacher Preparation:

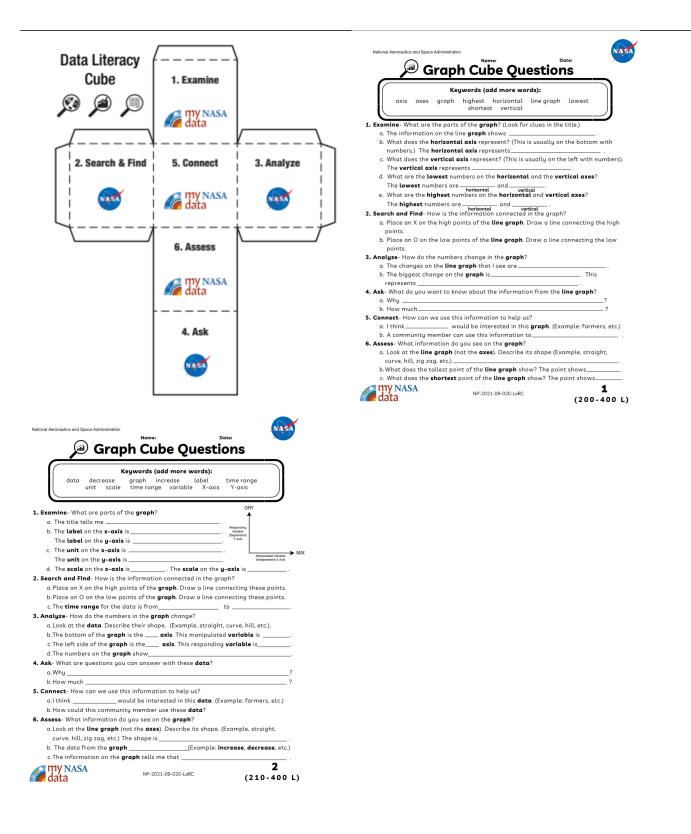
Print copies of the cube on cardstock and cut out. Assemble the cube with glue. Note: consider laminating after you cut these out for multiple uses. (Gaming dice may be substituted for the cubes.) Also, print off copies of the differentiated Graph Cube Questions. Distribute to students for group or independent work.

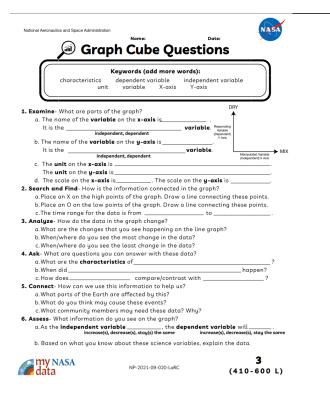
Technology Requirements

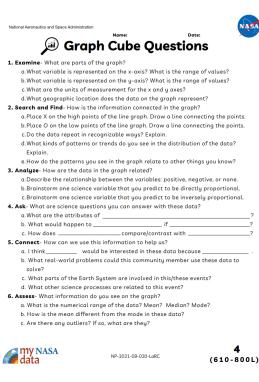
• Standalone Lesson (no technology required)

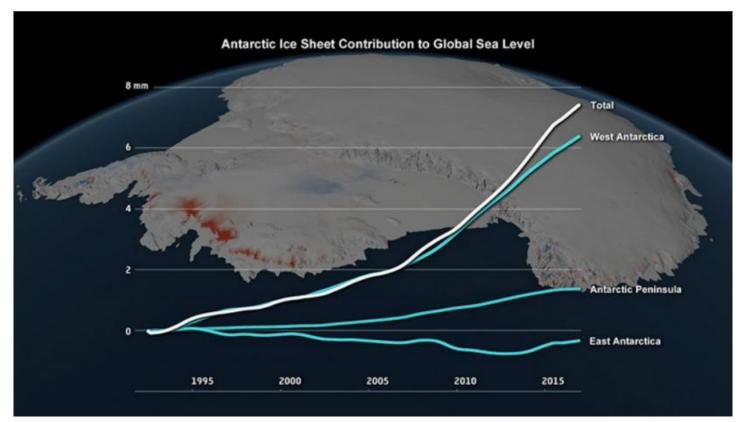
Procedure

- 1. Distribute one Cube per group (or die), as well as the related Graph <u>Cube Question</u> sheets and the graph.
- 2. Students roll the cube and find the matching question on the Graph Cube Question sheet.
- 3. Answer one question found under matching question on a sheet of paper, labeling the question with the number and letter of the question.
- 4. Repeat Steps 2-4 until all six are answered.









Credit: NASA