

June 4, 2019

Day 4/172

At the end of today's lesson you will;

- What causes climate change?

Classwork-

Earth's Changing Climate 4.1

- This lesson begins the final chapter of the unit in which students apply their knowledge about energy, the atmosphere, and climate change to a new context.
- Students are introduced to the Chapter 4 Question: How is Earth's climate affected in the five to ten years after a large volcanic eruption? Students consider two claims: (1) volcanic eruptions cool the climate and (2) volcanic eruptions warm the climate. An introductory video, as well as explanations by the teacher, make it clear that the effect of volcanic eruptions is much smaller than the effect of human activities that students investigated in Chapter 3, but still important for climatologists to understand.
- Students learn that volcanic eruptions add sulfur dioxide to the atmosphere and they use the Sim to investigate the effect of this gas on energy and temperature.
- Next, students use the unit's evidence criterion to select the set of data about temperature that will provide the strongest evidence for answering the Chapter 4 Question.
- This lesson begins students' preparation for participating in a whole-class discussion called a Science Seminar in Lesson 4.3.

Homework-

- Complete all of the activities from today's Earth's Changing Climate 4.1 lesson.

