

BOSTON GLOBE NEWS IN EDUCATION INDIVIDUAL COMMON CORE LESSON

Subject(s): Lesson 1: What is a volcano? **Grade:** 4 **Time:** 30-40 minutes

LESSON ELEMENTS	STUDENT-FRIENDLY TRANSLATION (# 2,3,4 only)
<p>1. Common Core Learning Standard(s) Addressed:</p> <ul style="list-style-type: none"> • CCSELA.R.I.3. Key Ideas and Details: Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text. • CCSELA.RI.4. Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area. • CCSELA.W.2. Write informative/explanatory texts to examine a topic and convey ideas and information clearly. • CCS4-ESS2-2. Analyze and interpret maps of Earth's mountain ranges, deep ocean trenches, and the placement of volcanoes and earthquakes to describe patterns of these features and their locations relative to boundaries between continents and oceans. 	
<p>2. Learning Objective(s): <i>What will students know (content) and be able to do (skills) as a result of this lesson?</i></p> <ul style="list-style-type: none"> • Based on information presented in a text, Identify and explain key details, including what happened and why. • Identify and apply meaning of key vocabulary related to volcanoes 	<p>(Students) You will be able to...</p> <ul style="list-style-type: none"> • Identify and explain key details you learned from the photographs and other informational texts about volcanoes. • Apply your understanding of important vocabulary words about volcanoes by completing the word chart
<p>3. Relevance/Rationale: <i>Why are the outcomes of this lesson important in the real world? Why are these outcomes essential for future learning?</i></p> <p>Students will develop their listening, reading comprehension and vocabulary skills as they learn about the key elements of an active volcano.</p>	<p>It is important for students (you) to develop your ability to identify important ideas from informational texts and to learn how volcanoes affect humans and the environment.</p>
<p>4. Formative and Summative Assessment Criteria for Success: <i>How will you and your students know if they have successfully met the selected Common Core Learning Standards and outcomes? What specific criteria will be met in a successful product/process? What does success on this lesson's outcomes look like?</i></p> <p>Students will demonstrate how they successfully meet the selected standards and outcomes by their completion</p>	<p>(Students) You will demonstrate how successful you were in meeting the selected standards and outcomes by your completion of the word chart your your participation in the class KWL.</p>

of the word chart and participation in the class KWL.

5. Activities/Tasks:

What learning experiences will students engage in? How will you use these learning experiences or their student products as formative assessment opportunities?

1. Show images of Volcanic Activity from around the world from Globe article. After video, use a KWL class chart to record what students think they know and want to learn more about volcanoes. What have I learned can be part of a final assessment activity at the end of this lesson and lesson 3.
2. Introduce volcanoes as one of the structures that are formed on the earth's surface. Use one of the following suggested text as a read aloud to introduce students to key words and volcanic activities. Be sure to model how to identify key vocabulary (already posted on board) as you read. Handout #1.
 - a. National Geographic for Kid: Volcanoes by Anne Schreiber
 - b. Volcanoes by Seymour Simons
 - c. Into the Volcano: A Volcano Researcher at Work by Donna O'Meara
 - d. Scholastic Series: I Survived the Destruction of Pompeii AD 79 by Lauren Tarshis
 - e. True Books: Hawaii Volcanoes National Park by Sharlene Nelson
3. Model how to record definition from text and to write a sentence or draw an example of the words on their handout.
4. Have students work with partner or small groups to complete word chart.
5. Review what they want to know and what they have learned part of the class chart.

6. Resources/Materials:

What texts, digital resources and materials will be used in this lesson?

Texts:

- National Geographic for Kid: Volcanoes by Anne Schreiber
- Volcanoes by Seymour Simons
- Into the Volcano: A Volcano Researcher at Work by Donna O'Meara
- Scholastic Series: I Survived the Destruction of Pompeii AD 79 by Lauren Tarshis
- True Books: Hawaii Volcanoes National Park by Sharlene Nelson

Digital Resources:

Images of Volcanic Activities across the World

*Volcanic Activity (images of volcanic activity around the world)

http://www.boston.com/bigpicture/2014/09/volcanic_activity.html

Handout #1: **Supplemental1-Key-Word-Definition-Chart**: includes following words

Key Word	Definition	Sentence or Picture
Active Volcano		
Lava		
Magma		
Molten Rock		
Volcanic Ash		
Lava Flow		
Eruption		
Vent		
Igneous Rock		
Crater		

7. Access for All:

How will you ensure that all students have access to and are able to engage appropriately in this lesson? Consider all aspects of student diversity.

All lessons will

- Use of digital representation of content will provide students will access to information
- Use of read aloud, think aloud, and graphic organizers will also be used to scaffold students' background knowledge of topic and academic vocabulary
- Students will have the opportunity to demonstrate their understanding through speaking, writing, and drawing

8. Modifications/Accommodations:

What curriculum modifications and/or classroom accommodations will you make for Students with Disabilities in your class? Be as specific as possible.

- Use of visual representation
- Digital texts with audio
- Small group and partner reading
- Graphic organizers

Common Core Aligned Lesson: Reflection

➤ In addition, please choose ONE question below to respond to *after you have taught the lesson* OR create your own question and respond to it after you have taught the lesson.

1. How did this lesson support 21st Century Skills?
2. How did this lesson reflect academic rigor?
3. How did this lesson cognitively engage students?
4. How did this lesson engage students in collaborative learning and enhance their collaborative learning skills?

You are also encouraged to use a facilitated "Learning from Student Work" protocol to review and reflect on student work related to this lesson.