

**BOSTON GLOBE NEWS IN EDUCATION
INDIVIDUAL COMMON CORE LESSON**

Subject(s): Lesson 3: Create a visual representation of 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: 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.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>	
<p>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"> Students will synthesize important information from visual and written texts. Students will create a visual presentation (stapleless or hotdog book) to demonstrate their understanding how a volcanoes and how they impact humans and the environment. Sections may include: <ul style="list-style-type: none"> Title Page: What I Have Learned About Volcanoes Table of Content The Elements of an Active Volcano What Makes a Volcano Active? The Negative Impact of Volcanoes The Positive Impact of Volcanoes Questions I Still Have about Volcanoes 	<p>(Students) You will be able to create a visual representation to demonstrate your understanding of how volcanoes erupt. (for example, label model of active volcano or student-made book)</p>
<p>2. Relevance/Rationale: <i>Why are the outcomes of this lesson important in the real world? Why are these outcomes essential for future learning?</i> Students will understand how natural disasters like volcanoes impact human activity and the environment.</p>	<p>(Students) You will be able to understand how natural disasters like volcanoes affect human activity and the environment</p>
<p>3. Formative and Summative Assessment Criteria for Success:</p>	<p>(Students) You will demonstrate your</p>

<p><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 their understanding of key elements of a volcano by labeling parts on chart and explaining the process of how a how each element interacts in an active volcano. (See handouts)</p>	<p>understanding of key vocabulary and how an active volcano erupts.</p>
<p>4. Activities/Tasks:</p> <p><i>What learning experiences will students engage in? How will you use these learning experiences or their student products as formative assessment opportunities?</i></p> <ol style="list-style-type: none"> 1. Review key words from volcanoes using word wall or word chart with a partner. 2. A. Model for students how they can draw a volcano and label main elements. They will also explain eruption process. (you can also provide them with an outline of a volcano) (See Handout #3) B. Model for students how to create a stapleless book. Go to: http://www.readwritethink.org/files/resources/interactives/stapleless/ You may also use the hotdog book making model. Go to: http://www.makingbooks.com/hotdog.shtml Another option: http://www.abcteach.com/directory/subjects-science-earth-volcanoes-3680-2-1# 3. Have students post their work and as a class complete the “what have I learned” part of the class KWL chart. 	
<p>5. Resources/Materials:</p> <p><i>What texts, digital resources and materials will be used in this lesson?</i></p> <p>Texts:</p> <ul style="list-style-type: none"> ○ 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 <p>Digital Resources:</p> <ul style="list-style-type: none"> ● ABCTeach Printable Resources on Volcanoes http://www.abcteach.com/directory/subjects-science-earth-volcanoes-3680-2-1 <ol style="list-style-type: none"> 6. Smithsonian Institute – Volcanoes and Humans http://volcano.si.edu/learn_galleries.cfm?p=17 7. ReadWriteThink Creating a Stapleless Book http://www.readwritethink.org/classroom-resources/student-interactives/stapleless-book-30010.html 	
<p>8. Access for All:</p> <p><i>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.</i></p> <p>All lessons will</p> <ul style="list-style-type: none"> ● 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 	
<p>9. Modifications/Accommodations:</p> <p><i>What curriculum modifications and/or classroom accommodations will you make for Students with Disabilities in your class? Be as specific as possible.</i></p>	

- 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.