

# MP1b-Natural Hazards

Content Area: **Science**  
Course(s): **Science 4**  
Time Period: **Marking Period 1**  
Length: **MP1**  
Status: **Published**

## Essential Questions

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- How are natural hazards created and how can humans reduce the impact of creating natural hazards?

## Big Ideas

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- A variety of hazards result from natural processes.
- Humans cannot eliminate hazards but can reduce their impacts.

## Science and Engineering Practices

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### Obtaining, Evaluating and Communicating Information:

- Read and comprehend grade-appropriate complex text and/or other reliable media to summarize and obtain scientific and technical ideas and describe how they are supported by evidence.

## Science and Society

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### Joanne Simpson

Meteorologist/Pilot who tested ideas about weather patterns by flying through weather systems.

## Enduring Understandings

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### Natural Hazards

4-ESS3.B A variety of hazards result from natural processes (e.g., earthquakes, tsunamis, volcanic eruptions). Humans cannot eliminate the hazards but can take steps to reduce their impacts.

## Designing Solutions to Engineering Problems

4-ETS1.B Testing a solution involves investigating how well it performs under a range of likely conditions.

### Focus Areas

#### Knowledge

- Over time, people's needs and wants change, as do their demands for new and improved technologies.
- Cause and effect relationships are routinely identified and used to explain change.

#### Skills

- Obtain and combine information from books and other reliable media to explain phenomena.
- Generate and compare multiple solutions to a problem based on how well they meet the criteria and constraints of the design solution.

#### Understanding

- Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.

## Resources

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### Primary Resource

Pearson Interactive Science, 2016

- Chapter 6: Earth's Resources

### Secondary Resources

Pearson Leveled Readers

- *Earth's Resources*
- *Types of Rocks and Minerals*
- *Mining for Rocks and Minerals*

### Supplemental Resources

- Smithsonian Institute Global Volcanism Program: [www.volcano.si.edu](http://www.volcano.si.edu)
- U.S. Volcanoes and Current Activity Alerts: [volcanoes.usgs.gov](http://volcanoes.usgs.gov)

## **Scientific Inquiry**

### **Core**

- Volcano Lab
- Earthquake Epicenter Lab