



Preparing for Volcanoes

Next Generation Science Standards

Grades 1-3:

- 2-ESS1-1 Earth's Place in the Universe: Use information from several sources to provide evidence that Earth events can occur quickly or slowly.
- 3-ESS3-1 Earth and Human Activity: Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.
- 3-5-ETS1-2 Engineering Design: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

Grades 4-6:

- 3-5-ETS1-2 Engineering Design: Generate and compare multiple possible solutions to a problem based on how

well each is likely to meet the criteria and constraints of the problem.

- 4-ESS3-2 Earth and Human Activity: Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.
- 4-ESS2-2 Earth's Systems: Analyze and interpret data from maps to describe patterns of Earth's features.
- 5-ESS3-1 Earth and Human Activity: Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
- MS-ESS3-2 Earth and Human Activity: Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.

CCSS English Language Arts Standards

Grades 1-3:

Production and Distribution of Writing

- CCSS.ELA-Literacy.W.3.4: With guidance and support from adults, produce writing in which the development and organization are appropriate to task and purpose.

Research to Build and Present Knowledge

- CCSS.ELA-Literacy.W.1.8: With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question.
- CCSS.ELA-Literacy.W.2.8: Recall information from experiences or gather information from provided sources to answer a question.
- CCSS.ELA-Literacy.W.3.8: Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.

Conventions of Standard English

- CCSS.ELA-Literacy.L.1.1, L.2.1 and L.3.1: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
- CCSS.ELA-Literacy.L.1.2, L.2.2 and L.3.2: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

Knowledge of Language

- CCSS.ELA-Literacy.L.2.3 and L.3.3: Use knowledge of language and its conventions when writing, speaking, reading, or listening.

Comprehension and Collaboration

- CCSS.ELA-Literacy.SL.1.1 and SL.2.1: Participate in collaborative conversations with diverse partners about grade appropriate topics and texts with peers and adults in small and larger groups.
- CCSS.ELA-Literacy.SL.3.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.
- CCSS.ELA-Literacy.SL.1.2: Ask and answer questions about key details in a text read aloud or information presented orally or through other media.
- CCSS.ELA-Literacy.SL.2.2: Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.
- CCSS.ELA-Literacy.SL.3.2: Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.



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CCSS English Language Arts Standards

Grades 4-6:

Text Types and Purposes

- CCSS.ELA-Literacy.W.4.2 and W.5.2: Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
- CCSS.ELA-Literacy.W.6.2: Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

Production and Distribution of Writing:

- CCSS.ELA-Literacy.W.4.4 and W.5.4: Produce writing in which the development and organization are appropriate to task and purpose.
- CCSS.ELA-Literacy.W.6.4: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

Research to Build and Present Knowledge

- CCSS.ELA-Literacy.W.4.8: Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources.
- CCSS.ELA-Literacy.W.5.8: Recall information from experiences or gather information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.
- CCSS.ELA-Literacy.W.6.9: Draw evidence from literary or informational texts to support analysis, reflection, and research.

Conventions of Standard English

- CCSS.ELA-Literacy.L.4.1, L.5.1 and L.6.1: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
- CCSS.ELA-Literacy.L.4.2, L.5.2 and L.6.2: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

Knowledge of Language

- CCSS.ELA-Literacy.L.4.3, L.5.3 and L.6.3: Use knowledge of language and its conventions when writing, speaking, reading, or listening.

Comprehension and Collaboration

- CCSS.ELA-Literacy.SL.4.1, SL.5.1 and SL.6.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade-appropriate topics and texts, building on others' ideas and expressing their own clearly.