



Preparing for Floods

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.
- 2-ESS2-1 Earth's Systems: Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.
- 2-ESS2-3 Earth's Systems: Obtain information to identify where water is found on Earth and that it can be solid or liquid.
- 3-ESS2-1 Earth's Systems: Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.
- 3-ESS2-2 Earth's Systems: Obtain and combine information to describe climates in different regions of the world.
- 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.

Grades 4-6:

- 4-ESS2-2 Earth's Systems: Analyze and interpret data from maps to describe patterns of Earth's features.
- 4-ESS3-2 Earth and Human Activity: Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.
- 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.
- MS-ESS2-5 Earth's Systems: Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.

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.