



National Standards Alignment for 79814 Earthquake Technologies Challenge

Next Generation Science Standards

Earth's Systems

4-ESS2-2 Analyze and interpret data from maps to describe patterns of Earth's features.

Earth and Human Activity

4-ESS3-2 Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.

Engineering Design

3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.

3-5-ETS1-2 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.

3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

Science and Engineering Practices

Practice 2: Developing and Using Models

Practice 3: Planning and Carrying Out Investigations

Practice 4: Analyzing and Interpreting Data

Practice 6: Constructing Explanations and Designing Solutions

Practice 7: Engaging in Argument from Evidence

CCSS Mathematics

Number & Operations in Base Ten

4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.

Measurement & Data

4.MD.A.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.

Standards for Mathematical Practice

MP1 Make sense of problems and persevere in solving them.

MP3 Construct viable arguments and critique the reasoning of others.

MP7 Look for and make use of structure.

CCSS English Language Arts

Writing

WL.4.1 Write opinion pieces on topics or texts, supporting a point of view with reasons and information.

Speaking & Listening

SL.4.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.

SL.4.4 Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.

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