

4-ESS2-2 Earth’s Systems

California Alternate Assessment for Science—Item Content Specifications

# 4-ESS2-2 Earth’s Systems

| California Science Connector | Focal Knowledge, Skills, and Abilities | Essential Understanding |
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| Identify patterns of Earth’s features on maps. | 1. Ability to identify patterns of Earth’s features by using maps. | Identify different land and water features by using a map. |

## **CA NGSS Performance Expectation**

Students who demonstrate understanding can:

**Analyze and interpret data from maps to describe patterns of Earth’s features.** [Clarification Statement: Maps can include topographic maps of Earth’s land and ocean floor, as well as maps of the locations of mountains, continental boundaries, volcanoes, and earthquakes.]

## Mastery Statements

Students will be able to:

* Identify rivers, lakes, oceans, islands, mountains, and deserts on a map
* Identify simple patterns of Earth features on a map including chains of lakes, mountain chains, and volcano chains
* Identify patterns in the location of features including hot deserts, volcanoes, mountain chains, and rivers and identify a description of the location of one of these features

## Possible Phenomena or Contexts

*Note that the list in this section is not exhaustive or prescriptive.*

**Possible contexts include the following:**

Identifying patterns in the location of geographical features on the continents:

* Location of coastal mountain ranges
* Location of mountain ranges and volcanoes
* Location of deserts
* Location of rivers and lakes
* Phenomena of tributaries flowing together to form larger rivers

## Additional Assessment Boundaries

* Identification of patterns of mountains at the medium and high complexity levels is limited only to coastal mountain ranges.

## Additional References

California Science Test Item Specification for 4-ESS2-2

<https://www.cde.ca.gov/ta/tg/ca/documents/itemspecs-4-ess2-2.docx>

The *2016 Science Framework for California Public Schools Kindergarten through Grade Twelve* <https://www.cde.ca.gov/ci/sc/cf/cascienceframework2016.asp>

Appendix 1: Progression of the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts in Kindergarten through Grade Twelve

<https://www.cde.ca.gov/ci/sc/cf/documents/scifwappendix1.pdf>

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