

5-ESS2-2 Earth’s Systems

California Alternate Assessment for Science—Item Content Specifications

# 5-ESS2-2 Earth’s Systems

| California Science Connector | Focal Knowledge, Skills, and Abilities | Essential Understanding |
| --- | --- | --- |
| Recognize using data that the majority of water on Earth is found in the oceans as salt water and most of the Earth’s fresh water is stored in glaciers. | 1. Ability to recognize that the majority of water on Earth is found in the oceans as salt water. 2. Ability to recognize that most of the Earth’s fresh water is stored in glaciers. | Recognize where salt water and fresh water can be found on Earth. |

## **CA NGSS Performance Expectation**

Students who demonstrate understanding can:

**Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.** [Clarification Statement: Assessment is limited to oceans, lakes, rivers, glaciers, ground water, and polar ice caps, and does not include the atmosphere.]

## Mastery Statements

Students will be able to:

* Recognize Earth has salt water and fresh water
* Identify places where fresh water or salt water is found on Earth
* Recognize that the majority of water on Earth is salt water found in the oceans
* Recognize that most of Earth’s fresh water is stored in glaciers

## Environmental Principles and Concepts

Principle 3—Natural systems proceed through cycles that humans depend upon, benefit from, and can alter.

## Possible Phenomena or Contexts

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

**Possible contexts include the following:**

* Pictures comparing the overall size of oceans to the size of lakes
* Graphs, charts or data tables comparing the amount of salt water and freshwater in different reservoirs
* Graphs, charts or data tables comparing the amount of freshwater in different reservoirs
* Pictures comparing different sources of water for drinking and growing plants

## Additional Assessment Boundaries

* None listed at this time

## Additional References

California Science Test Item Specification for 5-ESS2-2

<https://www.cde.ca.gov/ta/tg/ca/documents/itemspecs-5-ess2-2.docx>

Environmental Principles and Concepts <http://californiaeei.org/abouteei/epc/>

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>

Appendix 2: Connections to Environmental Principles and Concepts

<https://www.cde.ca.gov/ci/sc/cf/documents/scifwappendix2.pdf>

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