

HS-LS4-6 Biological Evolution: Unity and Diversity

California Alternate Assessment for Science—Item Content Specifications

# HS-LS4-6 Biological Evolution: Unity and Diversity

| California Science Connector | Focal Knowledge, Skills, and Abilities | Essential Understanding |
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| Analyze data to determine a potential solution to mitigate adverse impacts of human activity on biodiversity. | 1. Ability to look at data and determine that there is a solution to mitigate adverse impacts of human activity on biodiversity. | Recognize that human activities can affect biodiversity. |

## **CA NGSS Performance Expectation**

Students who demonstrate understanding can:

**Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.** [Clarification Statement: Emphasis is on designing solutions for a proposed problem related to threatened or endangered species, or to genetic variation of organisms for multiple species.]

## Mastery Statements

Students will be able to:

* Recognize examples of human activities that support an increase in biodiversity
* Recognize examples in which a population of organisms is reduced as a result of human activity
* Identify data that support the claim that a human activity increased biodiversity

## Possible Phenomena or Contexts

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

**Possible contexts include the following:**

* Fishing practices that protect juvenile fish and non-fish species
* The use of certain polluting herbicides and pesticides
* The destruction of habitat for development
* The degree of global climate change
* Human population growth

## Additional Assessment Boundaries

* None listed at this time

## Additional References

California Science Test Item Specification for HS-LS4-6

<https://www.cde.ca.gov/ta/tg/ca/documents/itemspecs-hs-ls4-6.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>

California Science Test Item Specification for MS-LS1-1