

5-PS1-3 Matter and Its Interactions

California Alternate Assessment for Science—Item Content Specifications

# 5-PS1-3 Matter and Its Interactions

| California Science Connector | Focal Knowledge, Skills, and Abilities | Essential Understanding |
| --- | --- | --- |
| Classify through observation materials (e.g., shape, texture, buoyancy, color, magnetism, solubility) by physical properties. | 1. Ability to classify materials by physical properties. | Match materials with similar physical properties (e.g., color, hardness, response to magnets). |

## CA NGSS Performance Expectation

Students who demonstrate understanding can:

**Make observations and measurements to identify materials based on their properties.** [Clarification Statement: Examples of materials to be identified could include baking soda and other powders, metals, minerals, and liquids. Examples of properties could include color, hardness, reflectivity, electrical conductivity, thermal conductivity, response to magnetic forces, and solubility; density is not intended as an identifiable property.] *[Assessment Boundary: Assessment does not include density or distinguishing mass and weight.]*

## Mastery Statements

Students will be able to:

* Identify a shared property between two objects
* Classify objects into groups based on a shared property
* Classify objects into groups based on multiple shared properties

## Possible Phenomena or Contexts

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

**Possible contexts include the following:**

* Color/luster
* Magnetism
* Shape
* Texture—hard/soft, rough/smooth
* Clear/opaque
* Reflective/non-reflective
* Flexible/rigid

## Additional Assessment Boundaries

* None listed at this time

## Additional References

California Science Test Item Specification for 5-PS1-3

<https://www.cde.ca.gov/ta/tg/ca/documents/itemspecs-5-ps1-3.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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