

SCIENCE GRADE 2 Unit 2 Properties of Matter 2017

Content Area: **Science**
Course(s): **Generic Course**
Time Period: **Marking Period 2**
Length: **December January**
Status: **Published**

Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

SCI.2.2-PS1-1	Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
SCI.2.2-PS1-2	Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.
SCI.K-2.K-2-ETS1-3	Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- What should the three little pigs have used to build their houses?
- Can some materials be a solid or a liquid?
- How can we sort objects into groups that have similar patterns?

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- Students can work collaboratively, with adult guidance, to test different materials to determine which have properties that are best suited for an intended purpose.
- How do the properties of materials determine their use?
- Students demonstrate an understanding of observable properties of materials through analysis and classification of different materials.
- Students demonstrate grade-appropriate proficiency in planning and carrying out investigations and analyzing and interpreting data.
- The crosscutting concepts of patterns, cause and effect, and the influence of engineering, technology, and science on society and the natural world are called out as organizing concepts for these disciplinary core ideas

Content

Students will be able to:

- Patterns in the natural and human-designed world can be observed.
- Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature.
- Matter can be described and classified by its observable properties
- Every human-made product is designed by applying some knowledge of the natural world and is built using materials derived from the natural world.
- Simple tests can be designed to gather evidence to support or refute student ideas about causes.
- Different properties are suited to different purposes.
- Because there is always more than one possible solution to a problem, it is useful to compare and test designs.

Resources

ActivWall

Science textbook:

Student text

Activity cards

Nonfiction leveled readers

Nonfiction trade books

unitedstreaming.com

https://learningcenter.nsta.org/products/symposia_seminars/NGSS/webseminar16.aspx