

LINCOLN PUBLIC SCHOOLS
Science Learning Expectations: Grade 1

STANDARD:

**PHYSICAL
SCIENCE:**

Mass Standard

Observable
properties of
objects

States of Matter

Sort objects by
observable
properties such
as size, shape,
color, weight and
texture.

Identify objects
and materials as
solid, liquid, or
gas. Recognize
that solids have a
definite shape
and that liquids
and gases take
the shape of their
container.

Big Ideas

- ❑ Objects and materials can be identified by their properties as solid, liquid or gas.

Key Outcomes

- ❑ Students will demonstrate an understanding that **objects and materials can be identified** by their properties by classifying a substance as a solid or liquid.

Essential Knowledge and Skills

Students will be able to:

- ❑ How to use scientific inquiry* to access, explore and explain their understanding of core knowledge
- ❑ Changes in the properties or materials of objects can be observed and described
- ❑ Heating can cause a solid to melt to a liquid.
- ❑ Matter takes up space; two objects cannot occupy the same place at the same time
- ❑ Matter has properties (color, hardness, odor) that can be observed through the senses
- ❑ Objects and/or materials can be sorted or classified according to their properties
- ❑ Some properties of an object are dependent on the surrounding conditions
- ❑ Matter exists in three states: solid, liquid, gas
- ❑ Solids have a definite shape
- ❑ Liquids take the shape of their container
- ❑ Changes in temperature can change the state of matter

*Scientific Inquiry Standards are embedded in each unit of study