

## 2<sup>nd</sup> Grade - Lesson 1.1

### Classifying Objects Based on their Observable Properties

#### NGSS Alignment

#### Performance Expectations

**2-PS1-1: Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.**

#### Disciplinary Core Ideas

##### **PS1.A: Structure and Properties of Matter**

- Matter can be described and classified by its observable properties. (2-PS1-1)

*After a short lesson on the meaning of “property/characteristic”, students investigate 14 different common objects and group them according to common characteristics. Students group the objects according to shape, flexibility, and what the object is made from.*

#### Science and Engineering Practices

##### **Planning and Carrying Out Investigations**

- Plan and conduct an investigation collaboratively to produce data to serve as the basis for evidence to answer a question. (2-PS1-1)

*Students conduct an investigation by closely observing a set of common objects to answer the question: Can different objects be placed into groups based on their observable properties?*

#### Crosscutting Concepts

##### **Patterns**

- Patterns in the natural and human designed world can be observed. (2-PS1-1)

*Students see similarities and differences between the properties of objects. One pattern that students may notice is that objects made from the same material tend to have similar characteristics. For instance, wax paper and a wax candle both feel smooth and kind of greasy. Or an eraser and a rubber band are both flexible.*