

## 2<sup>nd</sup> Grade - Lesson 6.1

### The Same Parts Can Make Many Objects

#### NGSS Alignment

#### Performance Expectations 2-PS1-3:

**2-PS1-3 Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.**

#### Disciplinary Core Ideas

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

- A great variety of objects can be built up from a small set of pieces. (2-PS1-3)

*Students use 4 Snap Cubes to make eight objects. Then students, as a class, use five Snap Cubes to make 29 different objects.*

#### 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.

*Students use a small set of Snap Cubes to try to find out how many different objects can be made by rearranging just four or five Snap Cubes. Students also do an anagram activity in which they see that the same letters can be rearranged to make different words.*

#### Crosscutting Concepts

##### Energy and Matter

- Objects may break into smaller pieces and be put together into larger pieces or may change shapes. (2-PS1-3)

*Students see that objects can be disassembled into smaller parts and then reassembled into different objects. This The Snap Cubes and the letters in the anagrams are used as models of atoms and the different objects and words created are a model of molecules.*