Name _____ Date _____ Class _____

Inquiry Launch Lab

LESSON 1: 15 minutes

How do you classify matter?

Procedure

1. Place the **objects** on a table. Separate the objects into groups with these characteristics:
   a. ***Every object is the same and has only one part.***
   b. ***Every object is the same but is made of more than one part.***
   c. ***Individual objects are different. Some have one part, and others have more than one part.***
3. Identify the objects that meet the requirements for group *a*, and record them in the Data and Observations section below. Repeat with groups *b* and *c*. Any object can be in more than one group.

Data and Observations

Group A:

Group B:

Group C:

Think About This

1. Does any object from the bag belong in all three of the groups (*a*, *b*, and *c*)? Explain.

_____

_____

2. What objects in your classroom would fit into group *b*?

_____

_____

3. **Key Concept** Which group best represents the composition of an **element**? Explain.

_____

Which group best represents the composition of a **compound**? Explain.

_____

Which group best represents the composition of a **mixture**? Explain.

_____

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Classifying Matter

Directions: *Write the correct term in the boxes to the right of each clue. Then unscramble the letters in the shaded boxes to spell a tenth term.*

atom	**compound**	**dissolve**	**element**
heterogeneous mixture	**homogeneous mixture**	**matter**	**mixture**
substance	**unique**		

1. has mass and takes up space
2. unlike anything else
3. oxygen or hydrogen, for example
4. Its composition is always the same.
5. Substances are evenly mixed in this.
6. building block of matter
7. Substances are not evenly mixed in this.
8. water or carbon dioxide, for example
9. to form a solution by mixing evenly
10. When unscrambled, the letters in the shaded boxes spell _____, which is matter that can vary in composition.

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