

# Classifying Matter

## Part A. Nuts and Bolts Activity

Name: \_\_\_\_\_

Imagine that each object in the petri dish represents either an atom or a molecule.



### CLASSIFYING MATTER DATA SHEET

<b>A. Draw the Contents</b>	<b>F. Draw the Contents</b>
Element, Compound, or Matter? _____	Element, Compound, or Matter? _____
<b>B. Draw the Contents</b>	<b>G. Draw the Contents</b>
Element, Compound, or Matter? _____	Element, Compound, or Matter? _____
<b>C. Draw the Contents</b>	<b>H. Draw the Contents</b>
Element, Compound, or Matter? _____	Element, Compound, or Matter? _____
<b>D. Draw the Contents</b>	<b>I. Draw the Contents</b>
Element, Compound, or Matter? _____	Element, Compound, or Matter? _____
<b>E. Draw the Contents</b>	
Element, Compound, or Matter? _____	

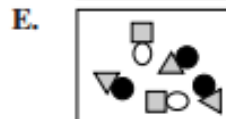
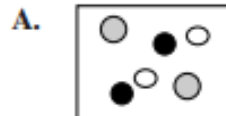
**Part B. Read each question carefully and then match the description with the appropriate picture on the right.**

Each shape represents an atom and each different color represents a different kind of atom.

If two atoms are touching then they are bonded together.

a) Match the lettered boxes with the appropriate term or description.

1. \_\_\_\_\_ element
2. \_\_\_\_\_ compound
3. \_\_\_\_\_ mixture of elements
4. \_\_\_\_\_ mixture of compounds
5. \_\_\_\_\_ mixture of compounds and elements



b) Which of the lettered boxes contains -  
(there may be more than one correct answer)

6. \_\_\_\_\_ only atoms, no molecules
7. \_\_\_\_\_ only molecules, no separate atoms
8. \_\_\_\_\_ both atoms and molecules

**Part C. Elements, Compounds, and Mixtures**

Classify each of the pictures below by placing the correct label in the blanks below:

A= Element

D= Mixture of compounds

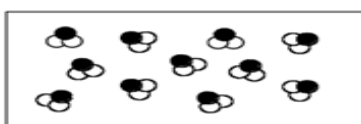
B= Compound

E= Mixture of elements and compounds

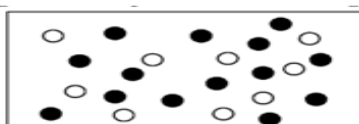
C= Mixture of elements

Each circle represents an atom and each different color represents a different kind of atom.

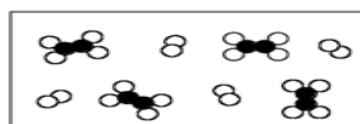
If two atoms are touching then they are bonded together.



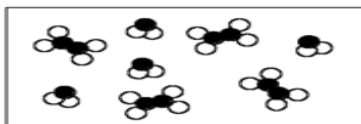
1) \_\_\_\_\_



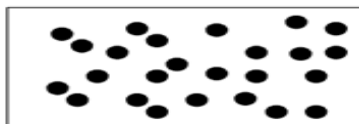
2) \_\_\_\_\_



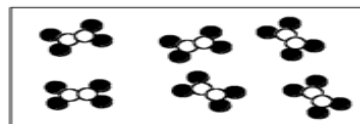
3) \_\_\_\_\_



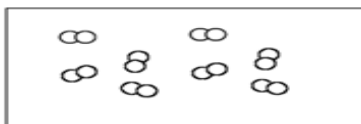
4) \_\_\_\_\_



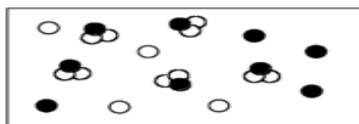
5) \_\_\_\_\_



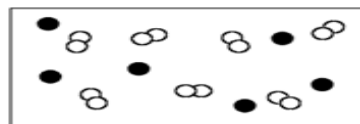
6) \_\_\_\_\_



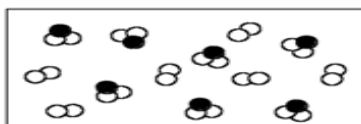
7) \_\_\_\_\_



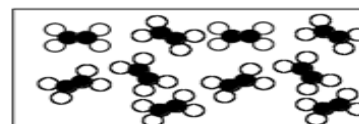
8) \_\_\_\_\_



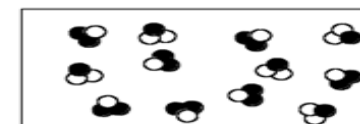
9) \_\_\_\_\_



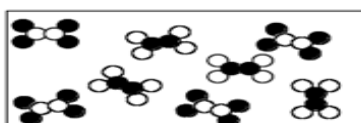
10) \_\_\_\_\_



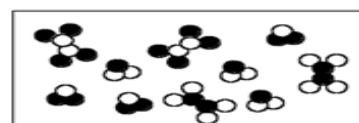
11) \_\_\_\_\_



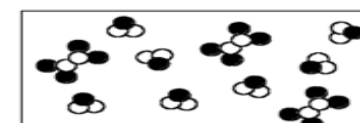
12) \_\_\_\_\_



13) \_\_\_\_\_



14) \_\_\_\_\_



15) \_\_\_\_\_