

# Classifying Matter

## “A Nuts and Bolts Demonstration”

Name \_\_\_\_\_

Date \_\_\_\_\_

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**Directions:** As your teacher holds up each of the petri dishes containing various things, please mark in your table below whether you think it is an element, a compound or a mixture.

Note: Each item represents either an atom or a molecule. Silently identify whether the collection of objects in the petri dish represent an element, a compound or a mixture.

Petri Dish	Element	Compound	Mixture
A			
B			
C			
D			
E			
F			
G			
H			
I			

Get together with your group and check your table with each other.

What do the dishes marked as “Elements” have in common? In other words, how would you describe the “elements”. \_\_\_\_\_

\_\_\_\_\_

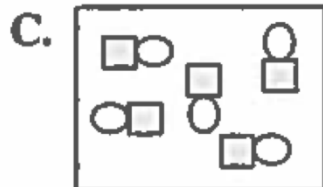
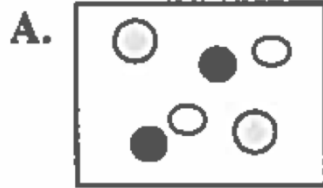
What do the dishes marked as “Compounds” have in common? In other words, how would you describe the “compounds”? \_\_\_\_\_

\_\_\_\_\_

What do the dishes marked as “Mixtures” have in common? In other words, how would you describe the “mixtures”? \_\_\_\_\_

\_\_\_\_\_

Match the



boxes at the left with the descriptions given below:

- \_\_\_\_\_ 1. Element
- \_\_\_\_\_ 2. Compound
- \_\_\_\_\_ 3. Mixture of elements
- \_\_\_\_\_ 4. Mixture of compounds
- \_\_\_\_\_ 5. Mixture of compounds &

elements

Which of the correct box)

boxes at the left (there may be more than one contain:

- \_\_\_\_\_ 6. Only atoms, no molecules
- \_\_\_\_\_ 7. Only molecules, no separate
- \_\_\_\_\_ 8. Both atoms and molecules

atoms