

Elements, Compounds, or Mixtures Activity (pg 2)

Names of group members _____

Date _____ hour _____

1. Appoint one group member to cut apart Model 1 into nine separate drawings. As a team, sort the drawings into two groups based on the following:

Matter is classified as a pure substance when all of the particles are identical. Matter is classified as a mixture if it is composed of two or more different particles.

2. Once you have your two groups, list the codes for the drawings in the appropriate places below.

Pure substances

Mixtures

3. Look at the drawings you identified as being Pure Substances. Decide which of these are examples of elements and which are Compounds/molecules based on the following:

Elements are defined as pure substances made from only one type of atom. Compounds/molecules are pure substances made from two or more types of atoms that are chemically bonded to one another.

4. Once you have your two groups, list the codes for the drawings in the appropriate places below.

Elements

Compounds/Molecules

5. Look at the codes for the drawings. Can you figure out what they mean? Notice any patterns?

What do these codes mean?

T = _____ Sq = _____

R = _____

6. Using this information, what do these codes mean?

R₃Sq = _____

TSq₂R _____

7. Look at the drawing with the “?” What would this drawing be called? _____

8. Use what you have learned to identify each below as an element (E), Compound (C) or Mixture (M)

a. Br₂ _____

d. Cu and Zn _____

b. NaHCO₃ _____

e. C _____

c. Al _____

f. H₂O and Fe _____