

Name _____

Date _____

Blk _____

Lab: Chemical Puzzles

In this activity, you will demonstrate your knowledge of chemical formula and name writing with the help of puzzle pieces that represent your elements.

Materials: chemical puzzle pieces
pencil crayons

scissors
periodic table

glue
blank paper

Procedure:

1. Your teacher will assign you five different compounds to construct using your puzzle pieces.

*glue your compound
set here*

2. Each compound must be glued down on blank paper and must have the following information,
IN THIS ORDER:
 - a. the **symbol** of each element or polyatomic with its ion charge written as a superscript (up high)
 - b. the **puzzle pieces** joined together and each piece labeled.
 - c. the correct **chemical formula**
 - d. the correct **chemical name**
3. Make sure that all items in step 2 are neat and spelled correctly AND COLOURED.

Observations: see attached page

Discussion:

1. Look at one of your chemical formulas. What two things does a chemical formula tell you?

- 2a. What is the name of the rule we use to write chemical formulas?

- b. How does ion charge help you write formulas?

3. When and where are ROMAN NUMERALS necessary? Be specific.

4. Look closely at the compounds you made. Sometimes using the criss-cross rule does not lead to the *most* correct way of writing a chemical formula. Which of your compounds fit into this category?

