NAME_____

DATE_____

In the following **chemical equation**:

1. Circle the **reactants**. Draw and arrow to them and label them "reactants."
2. Put a rectangle around the **products**. Draw and arrow to them and label them "products."
3. Identify the yield sign by drawing an arrow to it and labeling it "yield sign."

$$\mathbf{NaOH + HCl \Rightarrow NaCl + H_2O}$$

4. How many **elements** are involved in this chemical reaction?

5. List the symbols of the elements involved.

6. How many **compounds** are on the **reactant** side of the equation?

7. List the compounds on the reactant side.

8. What does the yield sign mean?

9. What happened to the elements in the compounds as they went through a chemical reaction?

10. What compounds did we end up with after the reaction? List them.

11. The law of conservation of mass and energy states that matter cannot be created or destroyed. What happened to the matter during the chemical reaction? Did we lose any mass/atoms?