

REACTION TYPES

EVIDENCE NOTEBOOK

KEY IDEAS

Classifying Reactions

1. **Synthesis (composition) reaction:**

a. Examples:

b. Illustrate what the following reaction: $2Na + Cl_2 \rightarrow 2NaCl$

2. **Decomposition reaction:**

a. Examples:

b. What is an easy way to identify synthesis and decomposition reactions?

3. **Single-displacement (replacement) reaction:**

a. Examples:

4. **Double-displacement (replacement) reaction:**

a. Examples:

NAME: _____ DATE: _____ PERIOD: _____

b. What is an easy way to identify the difference between single and double-displacement reactions?

5. Exothermic reaction:

a. Exothermic reactions _____ energy.

b. (Circle the best choice) The reactants have more | less energy than the products in exothermic reactions.

6. Endothermic reaction:

a. Endothermic reactions _____ energy.

b. (Circle the best choice) The reactants have more | less energy than the products in endothermic reactions.

7. Boiling water is an example of a(n) _____ reaction. Why?

8. Water freezing into ice is an example of a(n) _____ reaction. Why?

NAME: _____ DATE: _____ PERIOD: _____

CHECKPOINTS

Classify the following reaction by type:

