

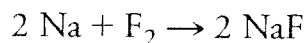
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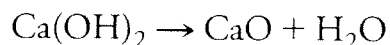
Types of Chemical Reactions

Describe what takes place in each reaction below. Give as much detail as you can.

1. In a **synthesis reaction**, two elements combine to form a new compound.



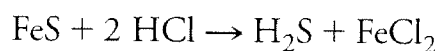
2. In a **decomposition reaction**, one compound breaks apart into two or more parts.



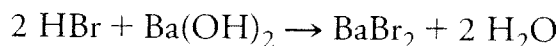
3. In a **single replacement reaction**, an element reacts with a compound and one of the elements is replaced.



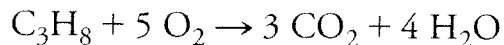
4. In a **double replacement reaction**, two compounds react and two of the elements replace each other.



5. In an **acid–base neutralization reaction**, an acid reacts with a base to produce a salt and water. (Write a description for this reaction as an acid–base neutralization and also as a double replacement reaction.)



6. In a **combustion reaction**, an organic substance reacts with oxygen, releasing energy and forming carbon dioxide and water.



CLASSIFYING CHEMICAL REACTIONS

Name _____

Classify the following reactions as synthesis, decomposition, single replacement or double replacement.

