

Guided Reading Chapter 14 Section 2

- _____ reactions occur when two or more substances are combined to form a new compound.
- A special type of addition reaction that creates polymers is called _____.
- A _____ reaction breaks down compounds into two or more smaller compounds.
 - addition
 - single displacement
 - decomposition
- In decomposition reactions, _____ is required to begin the reaction.
- What happens in a single displacement reaction?
- What happens in a double displacement reaction?
- In one type of combustion reaction, _____ is combined with oxygen to create heat and light.
 - nitrogen
 - carbon
 - hydrogen
- Complete the following table to review the different types of reactions.

Reaction	General Equation	Example
Addition		$2\text{H}_2\text{O} + \text{O}_2 \longrightarrow 2\text{H}_2\text{O}$
	$\text{AB} \longrightarrow \text{A} + \text{B}$	
	$\text{AX} + \text{B} \longrightarrow \text{BX} + \text{A}$	
Double Displacement		$\text{Pb}(\text{NO}_3)_2 + 2\text{KI} \longrightarrow \text{PbI}_2 + 2\text{KNO}_3$
	Carbon compound + $\text{O}_2 \longrightarrow$ $\text{CO}_2 + \text{H}_2\text{O}$	

- Draw Figure 14.15 to compare several types of carbon compounds.
- Write the reaction that would occur in cars of the future. What is the final product?