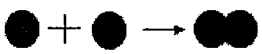

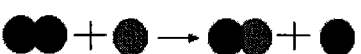
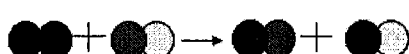


Chemical Reactions

ANSWER KEY

1. Watch the video and then complete the chart.

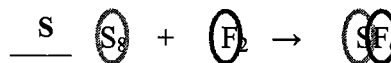
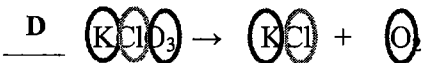
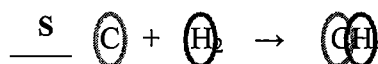
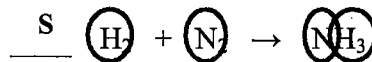
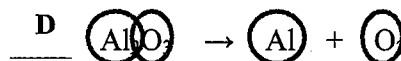
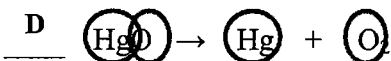
Teacher notes on next page!

Type of Reaction	Definition	★ Equation
Synthesis	Two or more elements or compounds combine to make a more complex substance	$A + B \rightarrow AB$ 
Decomposition	Compounds break down into simpler substances	$AB \rightarrow A + B$ 
Single Replacement	Occurs when one element replaces another one in a compound	$AB + C \rightarrow AC + B$ 
Double Replacement	Occurs when different atoms in two different compounds trade places	$AB + CD \rightarrow AC + BD$ 

Colors: A = Red, B = Blue, C = Green, D = Yellow

2. Use colored pencils to circle the common atoms or compounds on each side of the equations to help you determine the type of reaction it illustrates. Use the code below to classify each reaction.

S = Synthesis D = Decomposition SR = Single Replacement DR = Double Replacement



Note: SO₄ is a polyatomic ion.

Types of Reactions Worksheet – Solutions



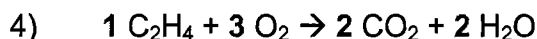
Reaction type: _____ **double displacement**



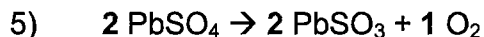
Reaction type: _____ **double displacement**



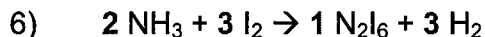
Reaction type: _____ **single displacement**



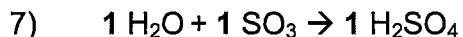
Reaction type: _____ **combustion**



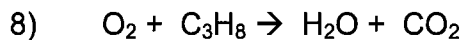
Reaction type: _____ **decomposition**



Reaction type: _____ **SR - double displacement**



Reaction type: _____ **synthesis**



Reaction type: _____ **combustion**

9) double displacement

10) combustion

11) single displacement

12) double displacement

13) ~~12~~ decomposition

14) ~~13~~ synthesis

Indicate the type of reactions for letters g through t.

