

## Lab 9 - Exercise Answers

**Results:** Translate and balance each word description chemical reaction.

Type your answer in the space below the problem (as shown in problem1)

**Pay attention to font case (ie. Chlorine is Cl not CL, Carbon dioxide is CO<sub>2</sub>, not Co<sub>2</sub>)**

**( ) are not used when subscript is one (ie. Na<sub>2</sub>SO<sub>4</sub> has no parenthesis)**

**Leave a blank space between coefficient and formula**

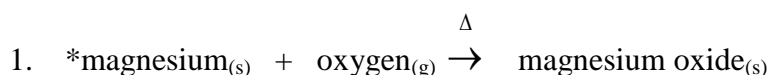
**Leave a blank space on either side of the + sign**

**Coefficient of 1 is understood and not listed**

**If possible, divide all coefficients by a common divisor**

**Pay attention to diatomics**

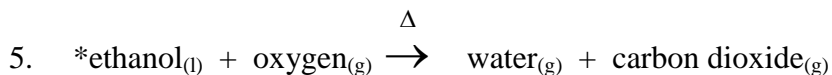
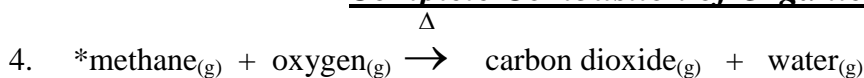
### Combination Reactions—Instructor Demonstrations



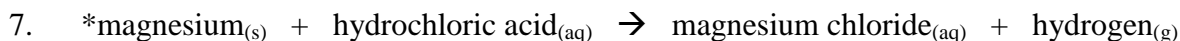
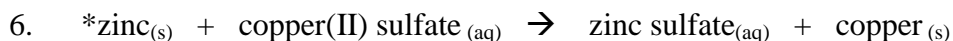
### Decomposition Reactions



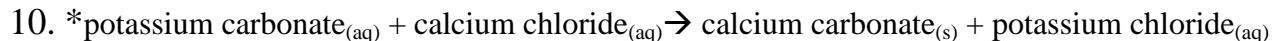
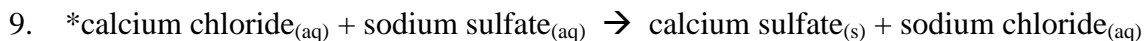
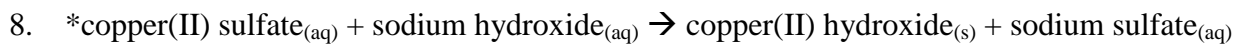
### Complete Combustion of Organic Fuel Reactions



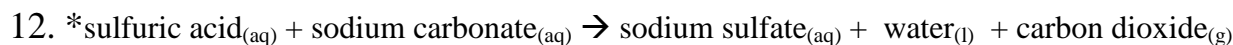
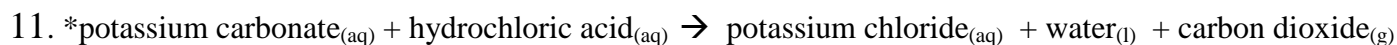
### Single-Replacement Reactions



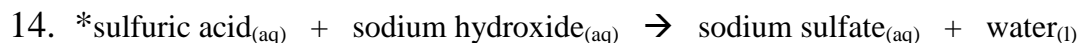
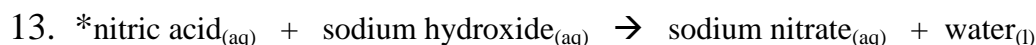
### ***Double-Replacement Reactions: Precipitation Reaction***



### ***Double-Replacement Reactions: Gas Forming Reactions***



### ***Double-Replacement Reactions: Neutralization Reactions***



**Conclusion:** List some indicators of chemical reactions:

**Formation of:**

**Heat**

**Light**

**Flame**

**Precipitate**

**Gas Bubbles**

**Odor**

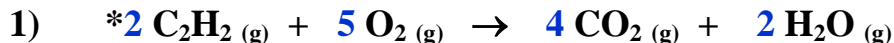
**Color Change**

**Chilling**

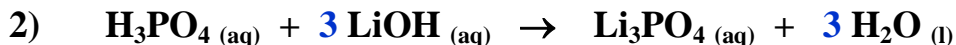
**The \* indicates the exact reaction was listed in the lab briefing slides**

## Questions

Balance and Classify the following chemical reactions:



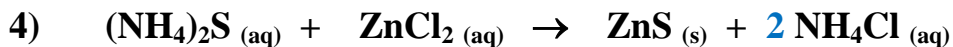
**Combustion**



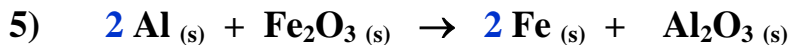
**Neutralización**



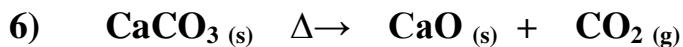
**Combination (Synthesis)**



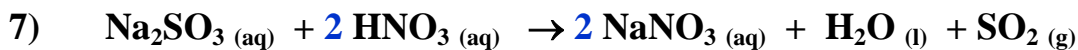
**Precipitation**



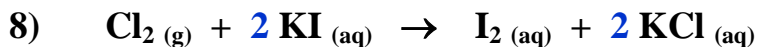
**Single Displacement (Replacement)**



**Decomposition**



**Gas Forming**



**Single Displacement (Replacement)**