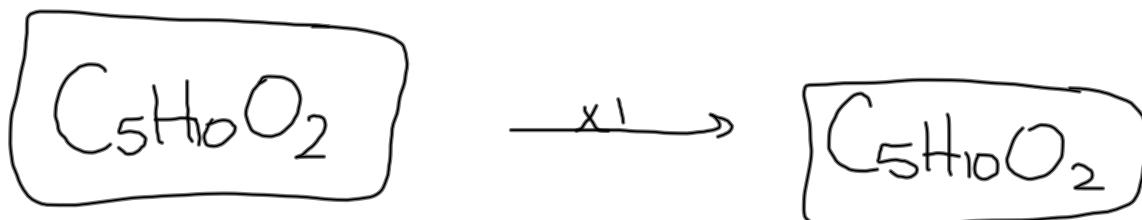


# Homework

$$58.8 \text{ g C} \times \frac{1 \text{ mol C}}{12.01 \text{ g C}} = \frac{4.896 \text{ mol C}}{1.963 \text{ mol}} = 2.5$$

$$9.8 \text{ g H} \times \frac{1 \text{ mol H}}{1.01 \text{ g H}} = \frac{9.703 \text{ mol H}}{1.963 \text{ mol}} = 5 \times 2 = 10$$

$$31.4 \text{ g O} \times \frac{1 \text{ mol O}}{16.00 \text{ g O}} = \frac{1.963 \text{ mol O}}{1.963 \text{ mol}} = 1 \times 2 = 2$$



$$102.15 \text{ g/mol} \xrightarrow{x1} 102.15 \text{ g/mol}$$

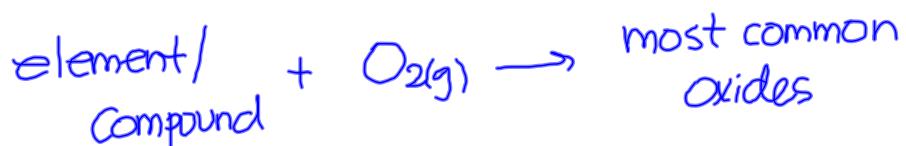
$$\begin{aligned} \text{C}_5\text{H}_{10}\text{O}_2 &\rightarrow (5 \times 12.01) + (10 \times 1.01) + (2 \times 16.00) \\ &= 102.15 \text{ g/mol} \end{aligned}$$

# Reaction Generalizations

## DECOMPOSITION

Compound  $\rightarrow$  elements

## COMBUSTION



## DOUBLE REPLACEMENT



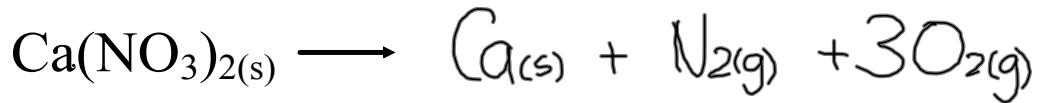
## SINGLE REPLACEMENT



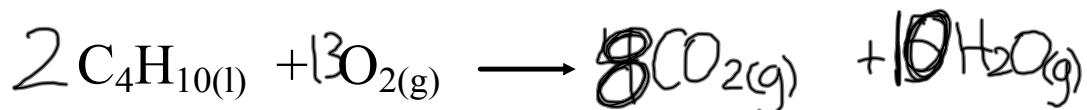
## FORMATION



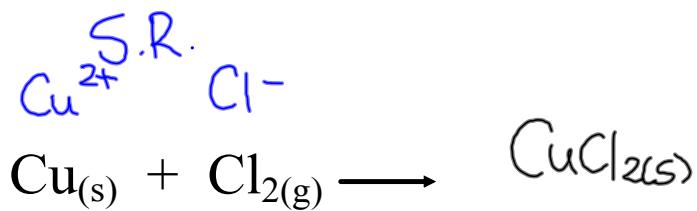
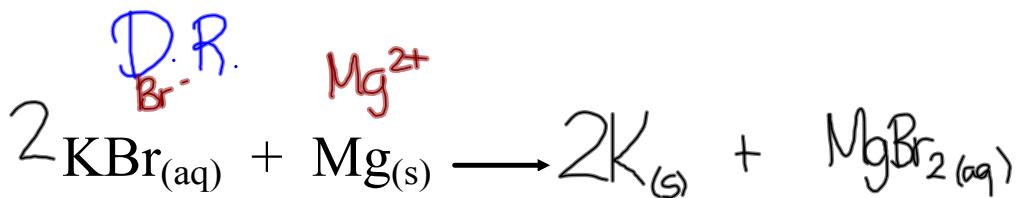
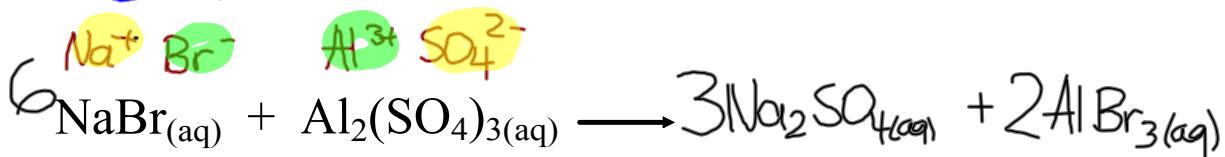
# Sample Reactions



DECOMP.



COMBUSTION



FORMATION

# **Types of Reactions Review**

## **Worksheet**