

ACTIVITY 1

1. How would you define a chemical reaction?

Hint: reactants, products, bonds, rearranged, atoms, molecules, new compounds

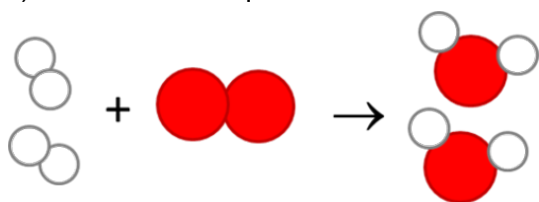
2. State the law of conservation of mass.

3. What is the difference between a picture equation, word equation and chemical equation?

4. Study the picture equation below. It shows how hydrogen combines chemically with oxygen to form water. Can you write

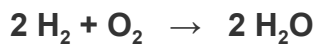
a) the word equation and

b) the chemical equation?



ACTIVITY 2

Study the chemical equation below





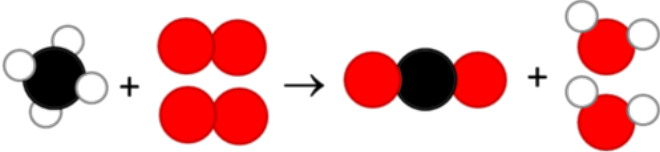
1. Name the reactants in this equation

2. Name the products in this equation

3. Is this a macroscopic, submicroscopic or symbolic representation of a chemical reaction?

4. Using $2 \text{H}_2\text{O}$ explain your understanding of the use coefficient and a subscript.

ACTIVITY 3

EQUATION	TYPE OF EQUATION
	
<p>carbon dioxide + water → glucose + oxygen</p>	
	
<p>$\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$</p>	
	
<p>$\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$</p>	