

WorksheetCloud: WORKSHEET**Grade 9****Subject: Natural Sciences****Topic: Reactions of non-metals with oxygen****ACTIVITY 1**

1. How would you define a chemical reaction?

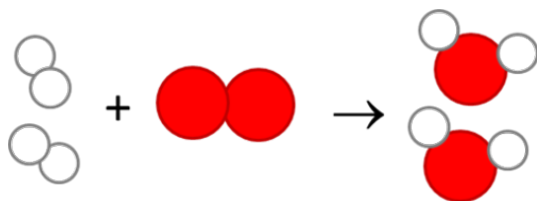
Hint: reactants, products, bonds, rearranged, atoms, molecules, new compounds

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

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

a) the word equation and

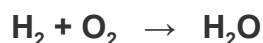
b) the chemical equation?



4. Write a word equation for the general reaction between a non-metal and oxygen.

ACTIVITY 2

Study the chemical equation below



1. Name the reactants in this equation

2. Name the products in this equation

3. Write a balanced equation for the chemical reaction.

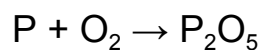
4. What is the IUPAC name for H_2O .

5. What is the common name for H_2O .

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

ACTIVITY 3

Study the chemical equation below:



1. Name the reactants in this equation.
2. Name the products in this equation.
3. Write a balanced equation for the chemical reaction.
4. What is the IUPAC name for P_2O_5 .
5. Using $2\text{P}_2\text{O}_5$ explain your understanding of the use coefficient and a subscript.