Unit 6 NAME

Class Work 2/10/14

6.8 Types of Chemical Reactions

SPARK

What is the grams formula mass of H_2O?

What is the grams formula mass of Na_3PO_4?

What is the empirical formula of N_2H_{10}?

Balance the chemical equation:

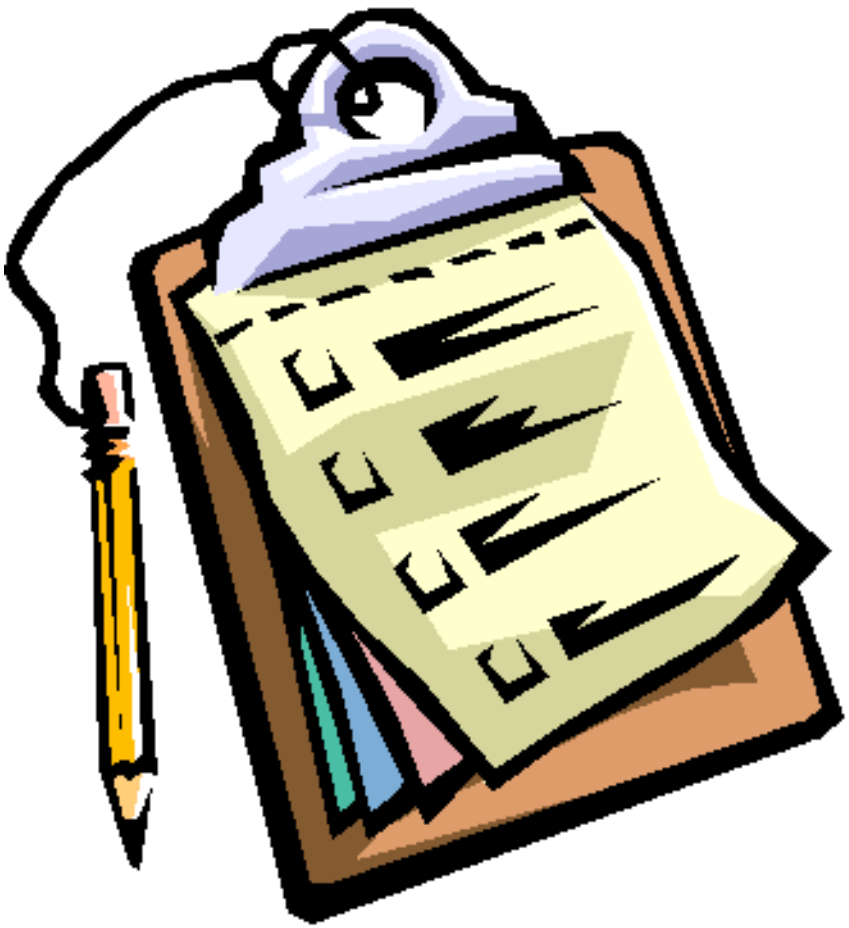
_____Fe + _____O_3 → _____Fe_2O_3

Objective

SWBAT identify the type of chemical reaction based on the chemical equation

Agenda:

- SPARK/Objective
- Notes
- Practice
- Homework



Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Review of Mole-Gram and Gram-Mole

- Grams formula mass = molar mass = formula mass
- Review 6.7 and homework!

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Unit 6 Quiz 2

- You have EIGHT MINUTES!

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Synthesis Reactions

- When two or more reactants combine to form a single product
- General form: <u>A + B → AB</u>

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Decomposition Reactions

- When a single compound is broken down into two or more simpler substances
- General form: <u>AB → A + B</u>

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Single Replacement

- When one element replaces another element in a compound
- General form: $\underline{A + BX \rightarrow B + AX}$

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Double Replacement

When two compounds are mixed together and the elements in the compound switch places

General form: $AB + CD \rightarrow AD + BC$

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Combustion

- Reaction where a substance combines with oxygen, releasing a large amount of energy in the form of light and heat.
- General form: $A + O_2 \rightarrow CO_2 + B$

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Cartoon Chemistry

- Write a sentence to describe the picture and then identify the type of chemical reaction you see.

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Practice

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Lab Time!

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

Exit Ticket

- Complete your 6.8 Exit ticket and place it in the blue bin when you are finished!

Objective: SWBAT identify the type of chemical reaction based on the chemical equation

HOMEWORK

Complete 6.8 WS

Work on Unit 6 flash cards!

Objective: SWBAT identify the type of chemical reaction based on the chemical equation