

Topic 6: Chemical Equations



Word Equations:

Skeleton Equations:

Symbol	State

Examples: Write the word and skeleton equations for the following chemical reactions.

- a) Aluminum metal resists corrosion since it reacts with oxygen in the air to form a coating of protective aluminum oxide

WORD:

SKELETON:

- b) Iron metal reacts with sulfur to produce iron (II) sulfide. Energy is released when this occurs.

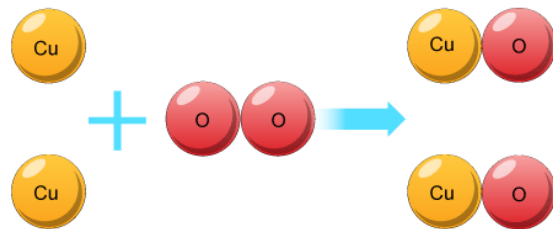
WORD:

SKELETON:

Law of Conservations of Mass (Balancing Equations)



Law of Conservation of Mass:



Combustion:

Example #1:

Word Equation:

nitrogen gas + hydrogen gas \rightarrow ammonia

Skeleton Equation:

Balancing:

Element	Reactants	Products

Example #2:

Word Equation:

calcium + water \rightarrow calcium hydroxide + hydrogen

Skeleton Equation:

Balancing:

Element	Reactants	Products