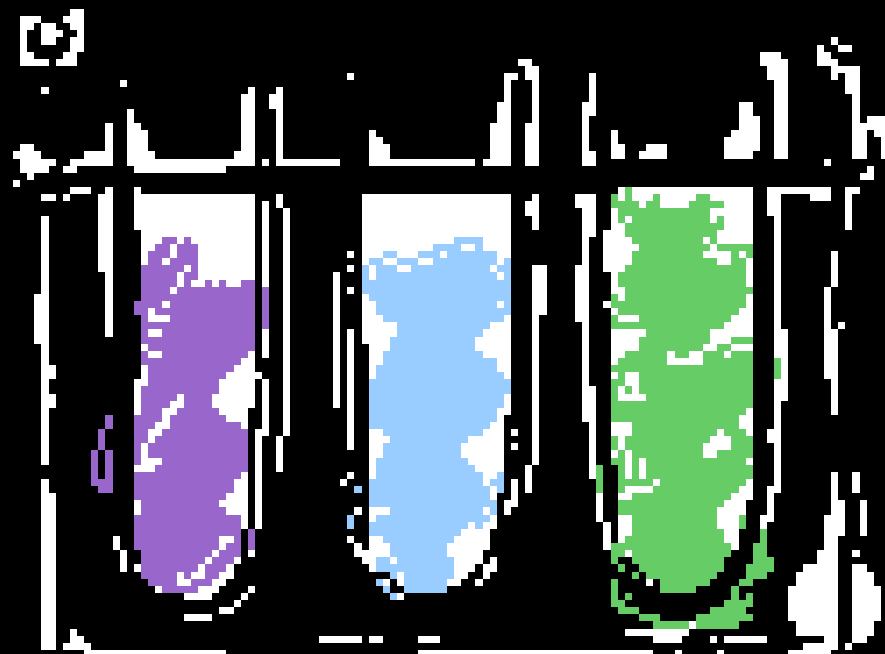


TYPES OF CHEMICAL REACTIONS



There are FIVE main types of chemical reactions

- ❖ Synthesis Reaction
- ❖ Decomposition Reaction
- ❖ Single Replacement Reaction
- ❖ Double Replacement Reaction
- ❖ Combustion Reaction

Synthesis Reactions

Two reactants combine to form ONE product

❖ "Addition" reaction

General format:



EX:



Soap Opera Version “Going Out”



+



Decomposition Reactions

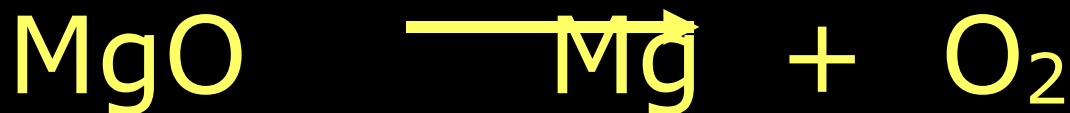
ONE reactant breaks down into two or more products

❖ Opposite of synthesis

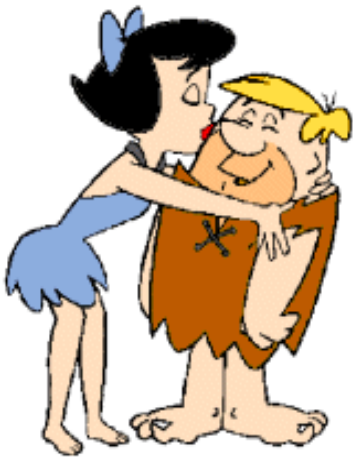
General Format:



EX:



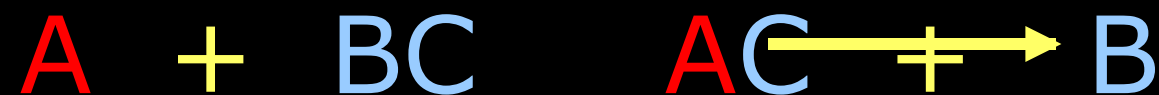
Soap Opera Version The “Break-Up”



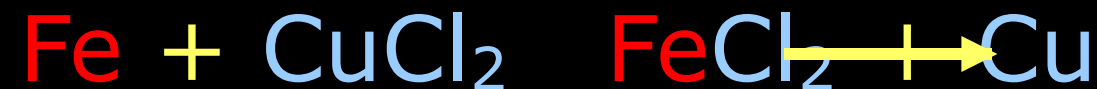
Single Replacement Reactions

One ELEMENT replaces another element in a compound

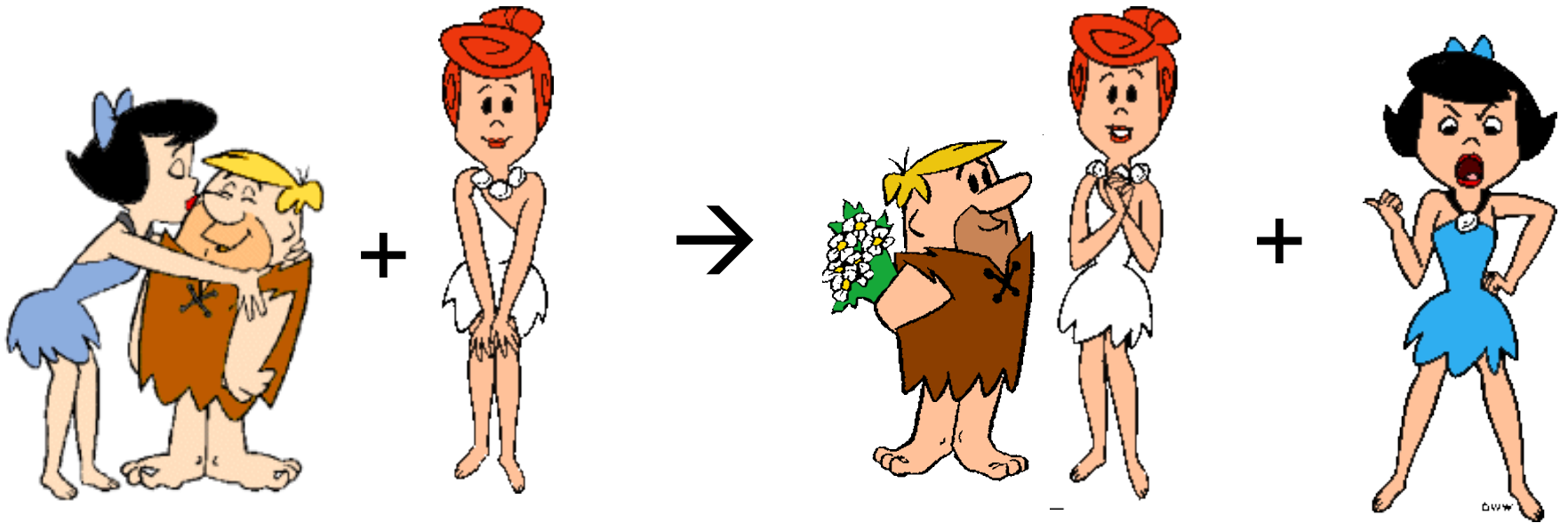
General Format:



EX:



Soap Opera Version “The Home Wrecker”

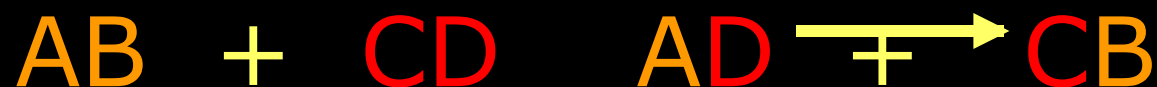


Double Replacement Reactions

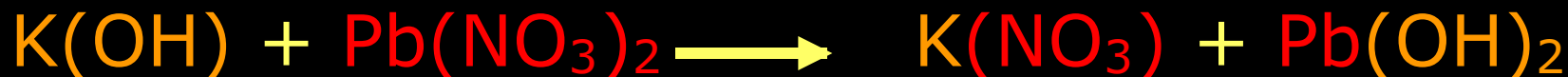
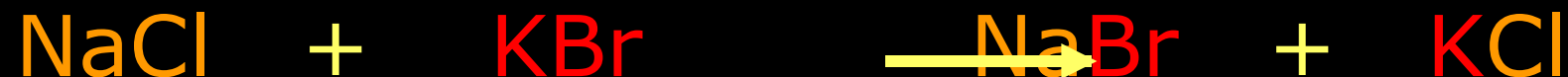
TWO compounds produce two NEW COMPOUNDS

The positive ions replace each other

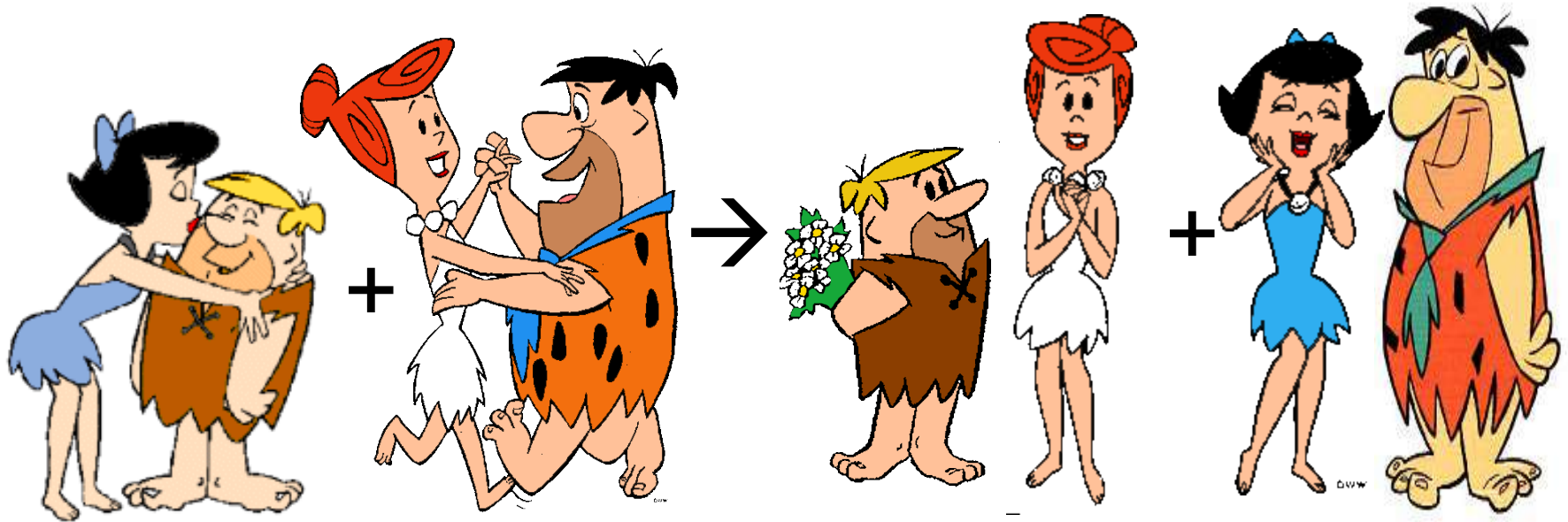
General Format:



EX:



Soap Opera Version “Wife Swap”



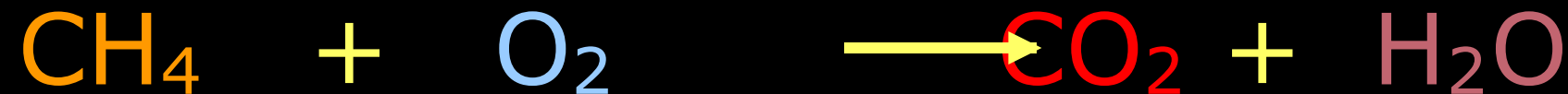
Combustion Reactions

A **HYDROCARBON** (contains hydrogen and carbon and sometimes oxygen) combines with **OXYGEN** to form **CARBON DIOXIDE** and **WATER**

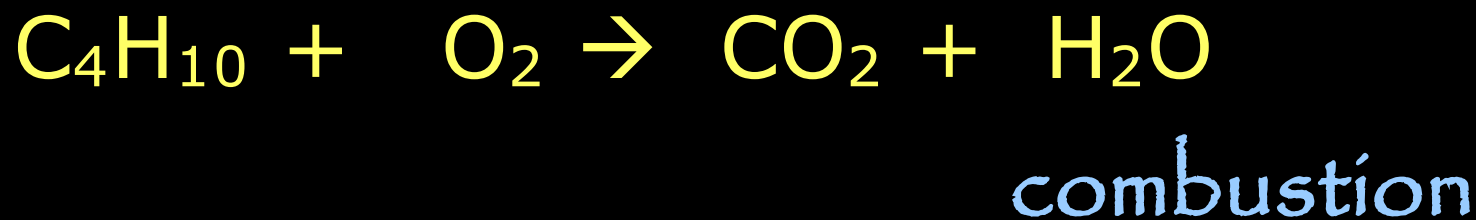
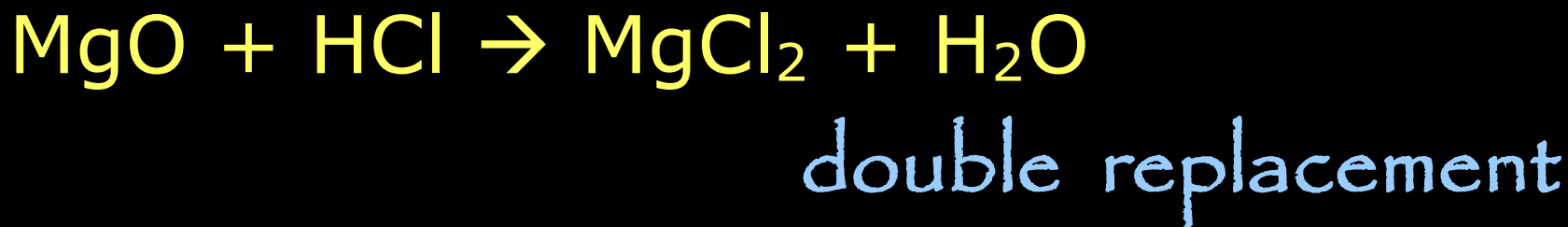
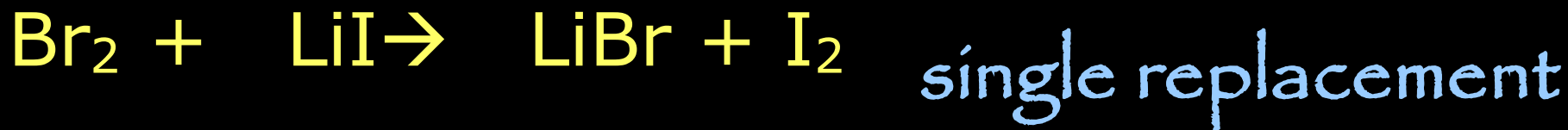
General Format:



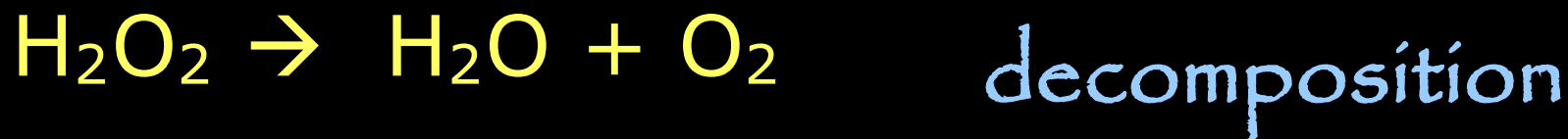
EX:



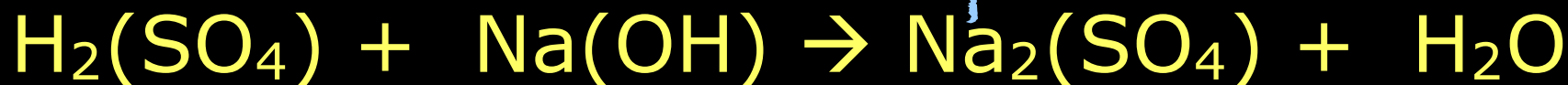
Your Turn!!



Your Turn!!



double replacement



double replacement



single replacement



double replacement