

## Types of Chemical Reactions

Do atoms rearrange in predictable patterns during chemical reactions?

### Why?

Recognizing patterns allows us to predict future behavior. Weather experts use patterns to predict dangerous storms so people can get their families to safety. Political analysts use patterns to predict election outcomes. Similarly, chemists classify chemical equations according to their patterns to help predict products of unknown but similar chemical reactions.

### Model 1 – Types of Reactions

#### Set A Synthesis Reaction



#### Set C single replacement reaction



#### Set B Decomposition Reaction



#### Set D Double Replacement Reaction



1. The chemical equations in Model 1 contain the phase notations (s), (l), (g), and (aq). Match each symbol with its meaning.

dissolved in water

(aq)

liquid

(l)

solid

(s)

gas

(g)

2. Based on the examples provided, which set(s) of reactions in Model 1 typically involve ions in solution (A, B, C or D)?

set D

3. Based on the examples provided, which set(s) of reactions in Model 1 typically involve gases and/or solids?

set B

# Isotopes Answers Chemistry Pogil

**Hongru Du**



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