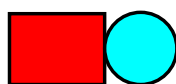


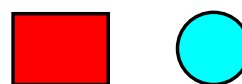
Models of Reactions

The following drawings represent reactants and products of three different chemical reactions.

Reaction A:

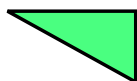


reactant

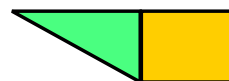


products

Reaction B:

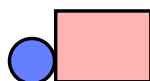


reactants



product

Reaction C:



reactants



products

1. Synthesis means “putting something together.” Which drawing represents a synthesis reaction? Explain your answer.
2. Decomposition means “taking something apart.” Which drawing represents a decomposition reaction? Explain your answer.
3. Replacement means “something taking the place of the other.” Which drawing represents a replacement reaction? Explain your answer.

ANSWERS

1. Reaction B is synthesis, because the two reactants come together to make one product.
2. Reaction A is decomposition, because the reactant is taken apart to make two products.
3. Reaction C is replacement, because one reactant takes the place of another.