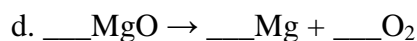
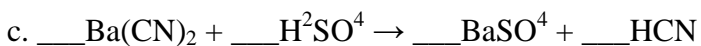
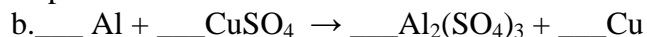
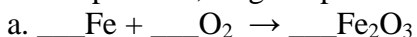


# Chemical Questions

1. Name 3 ways that you could increase the rate of a chemical reaction.

2. Acetic acid (a compound found in vinegar) reacts with baking soda to produce carbon dioxide, water and sodium acetate. Without writing the chemical formulas identify the reactants and the products of this equation.

3. Write balanced equations for each of the following, then classify them as synthesis (addition), decomposition, single replacement(displacement) or double replacement.



Use the diagram to answer the questions that follow:

- Which letter represents the energy that is in the products?
- Which letter represents the activation energy needed to start the process?
- Which letter shows the energy that is released in the reaction?
- Is this reaction endothermic or exothermic? How can you tell?
- Draw another line on the diagram shown to show how a catalyst would change the reaction.

