

**General Chemistry**  
**Mr. MacGillivray**  
**Quiz #34:**  
**Kinetics**

How would you vary each of the following factors in order to increase the rate of a chemical reaction?

1. Presence of a catalyst
2. Pressure
3. Concentration of reactants
4. Temperature
5. Sketch an energy diagram for a chemical process with and without a catalyst present. Sketch your graph as energy vs. reaction progress. Sketch the energy of the uncatalyzed process with a solid line, and sketch the catalyzed process with a dashed line.