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- 1. What 3 conditions does the collision theory say are necessary for a chemical reaction? Which of those conditions can be related to activation energy?
 - 1. Collision must occur

 - 2. Collisions must be strong enough to break bonds. 3. Molecutes must be oriented properly while colliding.

Activation energy: #'s 29 3 Moore

2. What is the equation for reaction rate?

Rate = < Concentration</td>

3. State how reactions are affected by the following:

a. Temperature: Migher temp, faster vate be cause of night energy. Placetant Molecules Moving Easter Creating more collisions.
b. Concentration: The nigher reactant concentration, the faster reaction rate of of more moleculus making more collissions.
c. Catalysts: William (4) was the concentration of patients.

c. Catalysts: MURASE reaction vate by lowering Activation enury. The (atalyst does not enargl.

4. Describe a reversible reaction. What happens?

The forward and reverse reaction can both occur.

5. When will equilibrium occur?

When the reaction rates of the forward and reverse reactions are equal. No change in concentrations, but reactions still occur.

6. What is the equilibrium constant?

concentration.