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Molecules must collide in order to react.

1) Concentration:

The higher the concentration, the higher number of collisions. Rate = k (collision frequency) = k (concentration) k = rate constant

2) Physical state:

Molecules must physically mix to come in contact and collide.

3) Energy/Temperature: (Activation Energy, Ea)

Molecules must collide effectively with enough energy to react. Raising the temperature increases the number of effective collisions and the energy of the collisions.

4) Catalysts:

Lower the Energy of Activation and speed up the reaction.