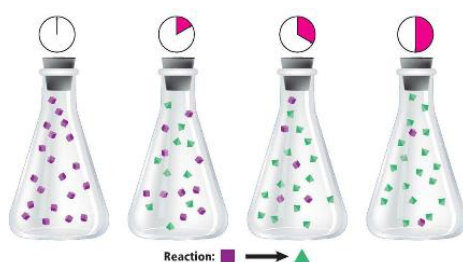


Guided Notes: Reaction Kinetics and Collision Theory

Expressing Reaction Rates

- Some chemical reactions are _____ and others are _____, but chemists need to be more _____.
- What is a rate?
- How do we use rates in everyday life?
- How would we measure the rate of a reaction?
- Equation for rate



- What happens to the amount of reactants over time? _____
- What happens to the amount of products over time? _____
- Do you think you would observe the same changes in reactants and products for every reaction? Explain.

Reaction Rate

- Reaction rate for chemistry is defined as: _____
- Concentration: _____
 - solute: _____
 - solvent: _____
 - ex: salt in water, salt is the _____, water is the _____
 - unit typically used for concentration in chemistry: _____, which means: _____
- Reaction rates are determined _____ by measuring the _____ of the reactants and/or products in a _____.
- Reaction rates CANNOT be calculated from a _____.
- Reaction rates must always be _____.

Collision Theory

- In order for a reaction to occur:
 - reactants must _____
 - collisions must be in the _____
 - collisions must have a _____ for bonds to break

