

Kinetics Unit Outline (Required concepts to know)

- Operationally define reaction rate 0.5 Class
- Variables used to monitor reaction rates (i.e change of something per time) 0.5 Class
- Measuring and calculating average and instantaneous rate of a chemical reaction 2 classes
- Relate the rate of formation of a product to the rate of disappearance of a reactant given experimental rate using stoichiometry 2 classes
- Identify factors that affect the rate of a chemical reaction 2 classes
- Use Collision Theory to explain the factors which affect the rate of chemical reactions (Activation energy and orientation of molecules) 0.5 class
- Draw potential energy diagrams for endothermic and exothermic reactions 1 class
- Explain the concept of a reaction mechanism (rate determining step, activation energy) 0.5 class
- Determine the rate law and order of a chemical reaction from experimental data (zero, first or second order) 3 classes

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