

AP Chemistry Pacing Guide

Unit 4: Chemical Reactions <ul style="list-style-type: none"> Introduction for Reactions Net Ionic Equations Representations of Reactions Physical and Chemical Changes Stoichiometry Introduction to Titration Types of Chemical Reactions Introduction to Acid-Base Reactions Oxidation-Reduction (Redox) Reactions 	BIG IDEA 1: Scale, Proportion, and Quantity BIG IDEA 3: Transformations	<ol style="list-style-type: none"> I can identify evidence of chemical and physical changes in matter. I can represent changes in matter with a balanced chemical or net ionic equation: a. For physical changes; b. For given information about the identity of the reactants and/or product. For ions in a given chemical reaction I can represent a given chemical reaction or physical process with a consistent particulate model. I can explain the relationship between macroscopic characteristics and bond interactions for: a. Chemical processes; b. Physical processes. I can explain changes in the amounts of reactants and products based on the balanced reaction equation for a chemical process. I can identify the equivalence point in a titration based on the amounts of the titrant and analyte, assuming the titration reaction goes to completion. I can identify a reaction as acid-base, oxidation-reduction, or precipitation. I can identify species as Brønsted-Lowry acids, bases, and/or conjugate acid-base pairs, based on proton-transfer involving those species. I can represent a balanced redox reaction equation using half-reactions. 	10 days
Unit 5: Kinetics <ul style="list-style-type: none"> Reaction Rates Introduction to Rate Law Concentration Changes Over Time Elementary Reactions Collision Model Reaction Energy Profile Introduction to Reaction Mechanism Mechanism Reaction Mechanism and Rate Law Steady-State 	BIG IDEA 3: Transformations BIG IDEA 6: Energy	<ol style="list-style-type: none"> I can explain the relationship between the rate of a chemical reaction and experimental parameters. I can represent experimental data with a consistent rate law expression. I can identify the rate law expression of a chemical reaction using data that show how the concentrations of reaction species change over time. I can represent an elementary reaction as a rate law expression using stoichiometry. I can explain the relationship between the rate of an elementary reaction and the frequency, energy, and orientation of molecular collisions. I can represent the activation energy and overall energy change in an elementary reaction using a reaction energy profile. I can identify the components of a reaction mechanism. I can identify the rate law for a reaction from a mechanism in which the first step is rate limiting. I can identify the rate law for a reaction from a mechanism in which the 	10 days

Metro Nashville Chemistry Pacing Guide

Mark Steyvers



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American Gas-light Journal and Chemical Repertory ,1898 *Journal of the Tennessee Academy of Science* Tennessee Academy of Science,1977 List of members in each volume *American Dyestuff Reporter* ,1953 Includes proceedings of the American Association of Textile Chemists and Colorists ASEE ... Profiles of Engineering & Engineering Technology Colleges ,1998 *Publications of the Faculty and Staff of the University of Tennessee; with a List of Doctors' and Masters' Theses* University of Tennessee, Knoxville,1962 **General Science** Patricia A. Watkins,Watkins,1989

The Tennessee Conservationist ,1952 Energy Research Abstracts ,1986 *Plunkett's Chemicals, Coatings & Plastics Industry Almanac* Jack W. Plunkett,2008-07 Market research guide to the chemicals coatings and plastics industry a tool for strategic planning employment searches or financial research Contains trends analysis statistical tables and an industry glossary Includes one page profiles of 400 leading chemicals coatings and plastics industry firms includes addresses phone numbers executive names *The Magazine of Wall Street and Business Analyst* ,1970 **Water Resources**

Research Catalog ,1969 Beginning with vol 9 only new and continuing but modified projects are listed Vols 8 should be kept as a record of continuing but unchanged projects **Peterson's Guide to Graduate and Professional Programs, an**

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