

Southern Regional High School

Manahawkin, New Jersey

Course Syllabus

Department: Science

Course: **CP CHEMISTRY**

Marking Period 1

Topics/Units to be covered:

- Classroom Expectations/Grading

Lab Safety, Measurement, Dimensional Analysis, Matter and Change, Atomic Structure

- Quarterly

Marking Period 2

Topics/Units to be covered:

Nomenclature (*Ionic, Molecular, and Acids*), Chemical Reactions (*Writing and Balancing*), Stoichiometry (*percent composition, empirical formula, molecular formula, mass to mass conversions, and percent yield*)

- Quarterly

Marking Period 3

Topics/Units to be covered:

Electronic Structure, Periodicity, Bonding (*Ionic, Covalent, Intermolecular Forces*), Gases

- Quarterly

Marking Period 4

Topics/Units to be covered:

Properties of Water, Solutions (*Molarity, Dilution, Percent by Mass*), States of Matter (*Phase changes, heating curves, cooling curves, phase diagrams*), Thermochemistry (*heat calculations, endothermic and exothermic reactions*), Acids and Bases (*calculating pH, reactions, and properties*)

- Final exam