Honors Chemistry

1 st QUARTER:	2 nd QUARTER:
I. Matter and Change A. Chemistry is a Physical Science B. Matter and Its Properties C. Elements II. Measurements and Calculations A. Scientific Method B. Units of Measurement C. Using Scientific Measurements III. Atoms: The Building Blocks of Matter A. The Atom B. The Structure of the Atom C. Counting Atoms BENCHMARK I	IV. Arrangement of Electrons in Atoms A. The Development of a New Atomic Model B. The Quantum Model of the Atom C. Electron Configurations V. The Periodic Law A. History of the Periodic Table B. Electron Configuration and the Periodic Table C. Electron Configuration and Periodic Properties VI. Chemical Bonding A. Introduction to Chemical Bonding B. Covalent Bonding and Molecular Compounds C. Ionic Bonding and Ionic Compounds D. Metallic Bonding E. Molecular Geometry VII. Chemical Formulas and Chemical Compounds A. Chemical Names and Formulas B. Oxidation Numbers (Honors)
	BENCHMARK II
3 rd QUARTER:	4 th QUARTER:
VII. Chemical Formulas and Chemical Compounds A. Using Chemical Formulas B. Determining Chemical Formulas – Percent Composition VIII. Chemical Equations and Reactions A. Describing Chemical Reactions B. Types of Chemical Reactions C. Activity Series of the Elements IX. Stoichiometry A. Introduction to Stoichiometry B. Ideal Stoichiometric Calculations C. Limiting Reactants and Percent Yield	X. States of Matter A. Kinetic Theory of Matter B. Liquids C. Solids D. Changes of State E. Water XI. Gases A. Gas and Pressure B. The Gas Laws C. Gas Volumes and the Ideal Gas Law D. Diffusion and Effusion XII. Solutions A. Types of Mixtures B. The Solution Process C. Concentration of Solutions XIII. Ions in Aqueous Solution B. Colligative Properties A. Compounds in Aqueous Solutions XIV. Reaction Energy (Thermochemistry)
BENCHMARK III	A. Thermochemistry XV. Acids, Bases, Salts A. Properties of Acids and Bases B. Acid-Base Theories C. Acid-Base Reactions D. Aqueous Solutions and the Concept of pH E. Indicators BENCHMARK IV