

LA SALLE GREEN HILLS
High School Department

1st TRIMESTER COURSE OUTLINE
SCIENCE 3 – CHEMISTRY (REGULAR)
SY 2010-2011

I. SCOPE AND SEQUENCE

A. Introduction

1. Science, Technology and Society
2. Chemistry and Its Branches
3. Historical Development of Chemistry
4. Scientific Method and Attitudes
5. Systems of Measurement
6. Accuracy and Precision
7. Scientific Notation
8. Significant Figures
9. Conversion of Units
10. Graphing

B. Matter and Energy

1. Matter and Its States
2. Physical and Chemical properties
3. Changes in Matter
4. Classification of Matter
5. Methods of Separating Components of Mixtures
6. Energy and Forms of Energy
7. Law of Conservation of Energy

C. Atomic Structures

1. Dalton's Atomic Theory and Law of Chemical Combination
2. Discovery of the Electron
3. Radioactivity
4. Discovery of the Nucleus
5. Atomic Number and Mass Number
6. Isotopes and Ions
7. Atomic Mass

D. Nuclear Chemistry

1. LCLE: Radiation In or Out?
2. Natural Radioactivity
3. Half-life
4. Artificial Radioactivity
5. Nuclear Equation
6. Balancing Nuclear Equations
7. Radioactive Wastes
8. Uses of Radioisotopes