MIAMI-DADE COUNTY PULIC SCHOOLS DISTRICT PACING GUIDE

YEAR-AT-A-GLANCE

CHEMISTRY I COURSE CODE: 2003340			
1 ST Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
I. Introduction (What are things made of and how do they change?) A. Develop Interest in Chemistry B. Lab Safety/Classroom Expectations II. Describing Matter (How are properties used to describe matter?) A. Classification of Matter B. Properties of Matter C. Density calculations D. Separation Techniques III. Periodic Table (What Is the stuff that the universe is made of?)	VI. Nomenclature and Formulas (How do we name compounds?) A. Writing Formulas B. Naming Ionic and Covalent Compounds VII. Energy and States (How can matter change its form?) A. Develop concept of molecular motion (Kinetic-Molecular Theory (KMT)) B. Review concept of Forces of Attraction C. Develop concept of phase changes VIII. Chemical Reactions (How do things change over time?) A. Chemical changes B. Develop the concept of conservation of mass as introduction to chemical reactions C. Classification of Chemical Reactions D. Balancing Chemical Reactions IX. The Mole (How do we count very small particles?) A. Develop the concept of the Mole B. Conversions with the Mole C. Empirical and Molecular Formulas	X. Stoichiometry (How do scientists predict and calculate quantities?) A. Mole Ratios in Chemical Reactions B. Stoichiometric Calculations XI. Solutions (Why does salt dissolve in water?) A. The Special Properties of Water B. Water as a Universal Solvent C. How substances dissolve in other substances (Like dissolves like) D. Components of a Solution E. Concentration vs. Dilution XII. Acids and Bases (How do antacids neutralize stomach acid?) A. Acids and bases B. Properties of Acids and Bases C. pH Scale D. Strengths of Acids and Bases E. Neutralization F. pH Based On Hydronium And Hydroxide Concentrations	