

Unit and Time Frame	Standards	Evidence of Understanding	Assessment		Instructional Strategies
			Formative	Summative	
Quantifying Matter (5 weeks)	Properties of materials were quantified with measurements that were always associated with some error. In this course, scientific protocols for quantifying the properties of matter accurately and precisely are studied. Using metric measuring systems, significant digits or figures, scientific notation, error analysis and dimensional analysis are vital to scientific communication.	I know how to use Avogadro's number in relation to moles. I can calculate the mass of a mole of any substance. I can use the molar mass to convert between mass and moles. I can use the mole to convert between mass, volume, and # of particles. I can calculate the % composition of a substance. I can derive the empirical formula and molecular formula of a compound.	Homeowrk Assignments, Lab experiments, chemistry trivia games, white board work, questions during class, review	Lab Reports, Quizzes, Chapter Tests, and Projects	Quantitative Analysis Lab, Sig Digs Notes, Sig Digs Practice Problems, Sig Digs Quiz, Investigation on Chemical Periodicity, % Comp WS, % Comp Lab, Moles and Molar Mass Practice Problems, Mole Takehome Test, Moles and Mass Lab, Compounds and Moles Test