

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Chemistry Unit 15 – Stoichiometry	10 – 12	6 th cycle	10 days
TEKS/Student Expectations		Examples/Specifications:	
<p>2C - express and manipulate chemical quantities using scientific conventions and mathematical procedures such as dimensional analysis, scientific notation, and significant figures</p> <p>4C - investigate and identify properties of mixtures and pure substances</p> <p>1A - demonstrate safe practices during field and laboratory investigations.</p> <p>1B - make wise choices in the use and conservation of resources and the disposal or recycling of materials.</p> <p>2A - plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting equipment and technology</p> <p>2B - collect data and make measurements with precision</p> <p>2C - express and manipulate chemical quantities using scientific conventions and mathematical procedures such as dimensional analysis, scientific notation, and significant figures</p> <p>2D - organize, analyze, evaluate, make inferences, and predict trends from data</p> <p>2E - communicate valid conclusions</p>	<p>2C – use moles to describe chemical quantities and solve problems involving moles, mass, and particles. Apply calculations in lab.</p> <p>4C – determine the percentage composition of compounds through lab investigation.</p> <p>1A & B – conduct lab experiments safely and follow instructor guidelines regarding appropriate disposal of materials.</p> <p>2A – use the scientific method when planning a controlled experiment, including the identification and selection of appropriate equipment, and the development of a suitable hypothesis.</p> <p>2B & C– using the metric system, measure quantities to the correct number of significant digits using scientific notation as appropriate. Convert between units as needed and round to the correct number of digits when reporting a calculated answer.</p> <p>2D & E – apply the steps of the scientific method to lab investigations.</p>		

Language of Instruction:		Instructional Resources/Textbook Correlations:
Stoichiometry Mole Avogadro's number Formula mass Percent composition		Glencoe Chemistry: Concepts and Applications – chapter 12 Mole-mass lab (2 days) Percentage composition lab
		Weblinks/Other Resources:
Evaluation/External Assessment/Local Assessment:		Best Instruction Timeline:
TAKS test (1.1A, 1.2A-D, 4.8A) Teacher-designed test Laboratory reports and performance Quizzes Daily work Homework		4 days – mole, mass, particle calculations 2 days – mole-mass lab investigation 2 days – percent composition and lab 2 days – review and assessment