

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Chemistry Unit 2 – Matter	10 – 12	1 st cycle	9 days
TEKS/Student Expectations		Examples/Specifications:	
4C - investigate and identify properties of mixtures and pure substances		4C – classify matter and learn element symbols. Apply classification in lab activity.	
4A - differentiate between physical and chemical properties of matter		4A – identify physical and chemical properties of matter and note examples of each in lab.	
4B - analyze examples of solids, liquids, and gases to determine their compressibility, structure, motion of particles, shape, and volume		4B – measure the density of substances in lab and solve problems involving density calculations.	
5A - identify changes in matter, determine the nature of the change, and examine the forms of energy involved		5A – distinguish between chemical and physical changes of matter in theory and in lab study.	
1A - demonstrate safe practices during field and laboratory investigations.		1A & B – conduct lab experiments safely and follow instructor guidelines regarding appropriate disposal of materials.	
1B - make wise choices in the use and conservation of resources and the disposal or recycling of materials.			
2A - plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting equipment and technology		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.	
2B - collect data and make measurements with precision		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.	
2C - express and manipulate chemical quantities using scientific conventions and mathematical procedures such as dimensional analysis, scientific notation, and significant figures			
2D - organize, analyze, evaluate, make inferences, and predict trends from data		2D & E – apply the steps of the scientific method to lab investigations.	
2E - communicate valid conclusions			

Language of Instruction:		Instructional Resources/Textbook Correlations:
Alloy Aqueous solution Chemical changes Chemical property Chemical reaction Chemistry Compound Density Element Endothermic Energy Exothermic Formula Law of conservation of mass Mass Matter	Mixture Physical change Physical property Property Qualitative Quantitative Solute Solution Solvent Substance Volume	Glencoe Chemistry: Concepts and Applications – chapter 1 Chemlab 2 – Kitchen chemicals Types of matter activity Changes lab Density lab
		Weblinks/Other Resources:
Evaluation/External Assessment/Local Assessment:		Best Instruction Timeline:
TAKS test (1.1A, 1.2A – D, 4.7E, 4.7A, 4.8A) Teacher-designed test Laboratory reports and performance Quizzes Daily work Homework		2 days – classification of matter and lab 3 days – properties and changes of matter and 2 labs 2 days – density problems and lab 2 days – review and assessment