Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Chemistry Unit 12 – Properties of the Elements	10 – 12	5th cycle	10 days

TEKS/Student Expectations	Examples/Specifications:
4D - describe the physical and chemical characteristics of an element using the periodic table and make inferences about its chemical behavior	4D – identify the major properties and uses of element families. Student teams will investigate a family and produce a presentation for the class on their assigned family.
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:**
Atomic radius Ionic radius Reactivity		Glencoe Chemistry: Concepts and Applications – chapter 8 Chemical family project Main group lab activity Transition element lab activity
		Weblinks/Other Resources:
Evaluation/External Assessment/Local Assessment:		**Best Instruction Timeline:**
TAKS test (1.1A, 1.2A-D, 4.7D) Teacher-designed test Laboratory reports and performance Quizzes Daily work Homework		5 days – research and presentations 3 days – periodic patterns and 2 labs 2 days – review and assessment