Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Chemistry Unit 4 – Periodicity	10 – 12	2nd cycle	9 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 – using properties of fictitious elements, design a periodic table demonstrating patterns in properties (periodicity). Identify all major chemical families on the current periodic table and investigate the properties of several families through lab investigations.
6C - summarize the historical development of the periodic table to understand the concept of periodicity	6C – describe the early periodic tables and Mendeleev's table on which the current table is modeled.
1A - demonstrate safe practices during field and laboratory investigations. 1B - make wise choices in the use and conservation of resources and the disposal or recycling of materials.	1A & B – conduct lab experiments safely and follow instructor guidelines regarding appropriate disposal 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 2C - express and manipulate chemical quantities using scientific conventions and mathematical procedures such as dimensional analysis, scientific notation, and significant figures	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.
2D - organize, analyze, evaluate, make inferences, and predict trends from data 2E - communicate valid conclusions	2D & E – apply the steps of the scientific method to lab investigations.

Language of Instruction:	Instructional Resources/Textbook Correlations:

Actinide Alkali metal Alkaline earth metal Group Halogen Lanthanide Metal Metalloid Noble gas Nonmetal Period Periodic law Periodicity Post-transition element Rare earth element Semiconductor Transition element		Glencoe Chemistry: Concepts and Applications – chapter 3 Periodicity activity Halogen lab Alkaline earth lab Metals lab
		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		1 day – periodicity activity 1 day – history of periodic table 4 days – chemical families and properties including halogen lab, alkaline earth metal lab, and properties of metals/nonmetals lab 2 days – review and assessment