

Grade 7 Scope & Sequence – Term 1

Approx Time Frame	5 Weeks (2 nd September – 6 th October)		
Unit Topic/Title and Key Components	Introduction to chemistry: Chapter 1: Introduction to matter. Chapter 3: Elements and the periodic table. Chapter 4: Atomic bonding. Chapter 5: Chemical reaction.		
Unit Question	<ul style="list-style-type: none"> -How is matter described? -What are atoms? -How are the elements organized in the periodic table. -How is matter conserved in a chemical reaction? -How can bonding determine the properties of a substance? 		
Standards	MS-PS1-1. Develop models to describe the atomic composition of simple molecules and extended structures. MS-PS1-2. Analyze and interpret data on the properties of substances before and after substances interact to determine if a chemical reaction has occurred. MS-PS1-3. Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.		
Theme	I Matter.		
Weekly Planning	Week 1: Introduction to atoms Week 2: Atoms bonding and the periodic table. Week 3: Organizing the elements Week 3 Observing a chemical reaction. Week 4: Describing chemical reaction. Week 5: Law of conservation of mass	Significant Concept (s)	SCF
		<ul style="list-style-type: none"> -Describe the structure of the atom. -Create a model of the modern model of the atom and discuss its significance. -Model extended structures, molecules and elements -Describe how energy changes when matter changes. -Describe how the atomic theory was developed. -Explain what determines the element’s chemistry. -Explain how changes in matter can be described. -Identify ways to tell if a chemical reaction has occurred. -Identify three categories of chemical reaction. 	Initiative, collaboration, communication, self-confidence, responsibility, independent learning, problem solving, creativity
Bloom’s Level	Remembering, understanding, analyzing, creating, evaluating.		
Assessment Criteria	-Formative Monitoring (Questioning/Discussion) -Building models - Kagan Strategies for assessments. - Laboratory skills rubrics -Starter Questions-Tickets to leave – Unit tests – Quizzes		
Possible Resources	Pearson Realize, BrainPop, Education City, Science Buddies, Youtube, Google classroom		

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