

WHCSD Scope and Sequence

Chemistry

Chemistry Scope and Sequence

	Quarter: 1	Quarter2	Quarter 3	Quarter 4
	STRUCTURE AND PROPERTIES OF MATTER	STRUCTURE AND PROPERTIES OF MATTER	INTERACTIONS OF MATTER	INTERACTIONS OF MATTER
Content	 C.PM.1: Atomic structure Evolution of atomic models/theory Electrons Electron configurations C.PM.2: Periodic Table Properties Trends C.PM.3: Chemical bonding Ionic Polar/covalent 	 C.PM.4: Representing compounds Formula writing Nomenclature Models and shapes (Lewis structures, ball and stick, molecular geometries) C.PM.5: Quantifying matter C.PM.6: Intermolecular forces of attraction Types and strengths Implications for properties of substances - Melting and boiling point Solubility Vapor pressure 	 C.IM.1: Chemical reactions Types of reactions Kinetics Energy Equilibrium Acids/bases C.IM.2: Gas laws Pressure, volume and temperature Ideal gas law 	C.IM.3: Stoichiometry • Molecular calculations • Solutions • Limiting reagents
Resources	McGraw Hill ODE Model Curriculum	McGraw Hill ODE Model Curriculum	McGraw Hill ODE Model Curriculum	McGraw Hill ODE Model Curriculum
Vocabulary				

Chemistry

2021-2022

 Quarter(s) 1-4

 During the years of 9-12, all students must become proficient in the use of the following scientific processes, with appropriate laboratory safety techniques, to construct their knowledge and understanding in all science content areas:

 SIA1 Identify questions and concepts that guide scientific investigations.

 SIA2 Design and conduct scientific investigations.

 SIA3 Use technology and mathematics to improve investigations and communications.

 SIA4 Formulate and revise explanations and models using logic and evidence (critical thinking).

 SIA5 Recognize and analyze explanations and models.

 SIA6 Communicate and support a scientific argument.

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