



Course Title: Chemistry Honors

Content Area: Science

Grade Level: 10

Scope and Sequence

Unit or Topic	Standards	Length of Time	Key Content	Assessment Tools	Scaffolding Strategies (Interventions, Special Education)	Resources & Materials
Measurement in Chemistry and Lab Safety	CHEM.A.1.1.2 CHEM.A.1.1.3	3 weeks	-Lab equipment and safety -Measurement and uncertainty -Significant figures -Factor Label Method	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Matter and Change	CHEM.A.1.1.1 CHEM.A.1.2.2	3 weeks	-Classification and properties of matter -Physical and Chemical Change -Density -Specific Heat	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Atomic Theory and Structure	CHEM.A.2.1.2 CHEM.B.1.1.1 CHEM.B.1.2.2	3 weeks	-Atomic Structure -Isotopes and Average Atomic Mass -The Mole and Molar Mass	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Arrangement of Electrons in an atom	CHEM.A.2.1.1 CHEM.A.2.2.1 CHEM.A.2.2.3 CHEM.A.2.2.4	3 weeks	-History of Atomic Theory -Bohr Model of the Atom -Quantum Mechanical Model -Electron Configurations	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.



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Periodic Law and Bonding	CHEM.A.1.1.4 CHEM.A.2.2.2 CHEM.A.2.3.1 CHEM.A.2.3.2 CHEM.B.1.3.1 CHEM.B.1.3.2 CHEM.B.1.4.1 CHEM.B.1.4.2	3 weeks	-Classifying the Elements -Lewis Dot Diagrams -Electronegativity and Bond Character - Ionic, Covalent and Metallic Bonding -VSEPR -Molecular Geometry	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Nomenclature	CHEM.A.1.1.5 CHEM.B.1.2.1 CHEM.B.1.2.3	3 weeks	-Monovalent and multivalent metals with nonmetals -Nonmetals with nonmetals -Acids -Percent Composition -Hydrates -Empirical Formula -Molecular Formula	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Chemical Reactions	CHEM.B.2.1.1 CHEM.B.2.1.3 CHEM.B.2.1.4 CHEM.B.2.1.5	3 weeks	-Balancing -Types of Reactions -Predicting Products -Activity Series -Solubility Rules	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Stoichiometry	CHEM.B.2.1.2	3 weeks	-Moles to moles -Moles to mass -Mass to Moles -Mass to Mass -Limiting reactants -Percentage Yield	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.
Gas Laws	CHEM.B.2.2.1 CHEM.B.2.2.2	3 weeks	-Boyle's Law -Charles's Law -Gay-Lussac's Law -Combined Gas Law	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.



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			-Ideal Gas Law			
Solutions	CHEM.A.1.2.1 CHEM.A.1.2.3 CHEM.A.1.2.4 CHEM.A.1.2.5	3 weeks	-Solubility -Concentration -Acids and Bases	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed.	All content is teacher created. Materials are posted in Blackboard.