



**Course Title:** Applied Chemistry

**Content Area:** Science

**Grade Level:** 10-12

## 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	4 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. Challenging content is reduced compared to Academic and Honors level.	All content is teacher created. Materials are posted in Blackboard.
Matter and Change	CHEM.A.1.1.1 CHEM.A.1.2.2	4 weeks	-Classification and properties of matter -Physical and Chemical Change -Density	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed. Challenging content is reduced compared to Academic and Honors level.	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	4 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. Challenging content is reduced compared to Academic and Honors level.	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	4 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. Challenging content is reduced compared to Academic and Honors level.	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.B.1.3.1 CHEM.B.1.3.2 CHEM.B.1.4.2	4 weeks	-Classifying the Elements -Lewis Dot Diagrams -Electronegativity and Bond Character - Ionic, Covalent and Metallic Bonding	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed. Challenging content is reduced compared to Academic and Honors level.	All content is teacher created. Materials are posted in Blackboard.
Nomenclature	CHEM.A.1.1.5 CHEM.B.1.2.3	4 weeks	-Monovalent and multivalent metals with nonmetals -Nonmetals with nonmetals -Acids	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed. Challenging content is reduced compared to Academic and Honors level.	All content is teacher created. Materials are posted in Blackboard.
Chemical Reactions	CHEM.B.2.1.3 CHEM.B.2.1.4 CHEM.B.2.1.5	4 weeks	-Balancing -Types of Reactions -Predicting Products	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed. Challenging content is reduced compared to Academic and Honors level.	All content is teacher created. Materials are posted in Blackboard.
Gas Laws	CHEM.B.2.2.1 CHEM.B.2.2.2	4 weeks	-Boyle's Law -Charles's Law -Gay-Lussac's Law -Combined Gas Law -Ideal Gas Law	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed. Challenging content is reduced compared to Academic and Honors level.	All content is teacher created. Materials are posted in Blackboard.
Solutions	CHEM.A.1.2.1 CHEM.A.1.2.3 CHEM.A.1.2.4 CHEM.A.1.2.5	4 weeks	-Solubility -Concentration	Teacher created assessments – quizzes, tests and labs.	Students are allowed to retest if needed. Challenging content is reduced compared	All content is teacher created. Materials are posted in Blackboard.



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