

Wallenpaupack Area School District

Wallenpaupack Area High School

Course Title: Chemistry I

Length of Course: 1 Semester

District Policies:

Academic Integrity:

Academic integrity is essential to the success of an educational community. Students are responsible for learning and upholding professional standards of research, writing, assessment, and ethics in their areas of study. Written or other work which students submit must be the product of their own efforts and must be consistent with appropriate standards of professional ethics. Academic dishonesty, which includes cheating, plagiarism, multiple submissions and other forms of dishonest or unethical behavior, is prohibited.

Assessment:

The goal of grading is to report student progress and achievement to the parents to strengthen the home-school connection. The grade should accurately reflect the student's performance in mastering the PA Standards and the WASD curriculum.

Attendance:

Regular school attendance is vitally important to academic success. Not only does attendance reinforce and enrich the learning process; it also establishes patterns and attitudes that will carry forward into adult work habits. Regular, consistent attendance is a prerequisite to successful school life. Children should be absent only in cases of illness or emergency.

Special Education:

Our commitment to each student is to ensure a free appropriate public education which begins with the general education setting, with the use of Supplementary Aids and Services. Inclusive education describes the successful education of all students with the appropriate supports and services to participate in and benefit from the general classroom settings and other educational environments.

Course Description:

This course includes the study of introductory chemistry topics, including composition, structure, and properties of matter and the changes matter undergoes. Laboratory safety and appropriate laboratory experiments are emphasized.

Pennsylvania State Standards:

All WAHS courses are aligned to the PA State Standards and Common Core Standards, where applicable.

Major Activities to Support Course Objectives:

- Supervised self-paced chemical laboratory work in laboratory groups
- Group projects and individual projects
- Cooperative learning groups
- Board demonstrations
- Guided practice
- Homework
- Teacher-made chapter tests and quizzes
- Student notebook/portfolio
- Projects (individual & group)
- Laboratory work and reports
- Final Exam

Student Responsibilities:

Attendance expectations: Attending class is imperative to a good science grade and understanding of material. Many graded activities will occur during classroom instruction time. All activities missed must be made up outside of class time, since other graded activities will be occurring during this period.

Homework expectations: Homework is due on the assigned day. All work is given in advance. The work assigned will be corrected on the day it is due. All corrections or work not completed is to be completed, while the work is reviewed in class. Many of the assignments are mathematical in nature or require the mastery of skills to be applied from generalized settings. By not completing the assignment, the student is doing a disservice to themselves by not allowing their instructor to evaluate their progress. Not doing homework in no way absolves the student from performing the activities in class or completing assessments that the homework assignment is needed for.

Make-Up Work: Makeup work for in-class activities will be made up by the student within three days of returning to school. Many times the skills of each chapter are needed to be met as a base to the next topic. Pre-assigned homework, activities to be completed at home, quizzes and tests are still expected to be completed in the original timeframe, unless other arrangements have been made. Due to the block schedule and nature of the course, new assignments, after the students return, will not be postponed until the old assignments are complete.

Late Work: Work should be handed in on the assigned due date. Since homework is corrected the day it is due and all students are to record the correct response for the studying of assessments, no points can be awarded for late homework not caused by absenteeism. Projects and notebooks will lose 25 points each day they are late.

Assessment:

Grading Components:

25% Tests, Reports, and Notebooks

25% Laboratories, Projects, and Activities

20% Class Participation

20% Homework

10% Quizzes

Content Pacing Guide:

Topic	Major Assignments	Estimated Time in Blocks
Safety in the Chemistry Laboratory	<ul style="list-style-type: none"> Laboratory Manual Homework and Learning Guides Laboratory Mini Experiments Laboratory Assessment 	7
Matter and Change	<ul style="list-style-type: none"> Chapter 1 Homework and Learning Guides Physical and Chemical Properties Laboratory Mixtures Laboratory Energy and Entropy Laboratory Which is more metallic Laboratory Chapter 1 Assessments 	7
Measurement and Calculations	<ul style="list-style-type: none"> Chapter 2 Homework and Learning Guides Scientific Method Laboratory Conversion Factor Laboratory Doesn't It Look Delicious Laboratory Accuracy and Precision Laboratory Chapter 2 Assessments 	9
Atomic Theory	<ul style="list-style-type: none"> Chapter 3 Homework and Learning Guides Investigating the Law of Conservation of Mass-Energy Spectrophotometer Laboratory Set Chapter 3 Assessments 	7
Arrangement of Electrons in Atoms	<ul style="list-style-type: none"> Chapter 4 Homework and Learning Guides Flame Test Laboratory Electron Arrangement Laboratory Chapter 4 Assessments 	7
The Periodic Table	<ul style="list-style-type: none"> Chapter 5 Homework and Learning Guides Periodic Law Laboratory Periodic Table Project Chapter 5 Assessments 	7
Chemical Bonding	<ul style="list-style-type: none"> Chapter 6 Homework and Learning Guides Electro-negativity Laboratory Modeling Molecular Polarity Laboratory Crystal Laboratory Chapter 6 Assessments 	7
Chemical Formulas and Composition	<ul style="list-style-type: none"> Chapter 7 Homework and Learning Guides 	9

	<ul style="list-style-type: none"> • Iron (II) and Iron (III) Laboratory • Formulas and Nomenclature Laboratory • Hydrated Crystals Laboratory • Chapter 7 Assessments 	
Chemical Equations and Reactions	<ul style="list-style-type: none"> • Chapter 8 Homework and Learning Guides • Chemical Changes and Equations Laboratory • Chapter 8 Assessments 	9
Acids and Bases	<ul style="list-style-type: none"> • Acid-Base Learning Guides • Acid-Base laboratory set including household substances and titrations. • Acid-Base assessment 	7
Qualitative Analysis	<ul style="list-style-type: none"> • Supervised self-paced chemical laboratory work in laboratory groups to identify unknown chemical compounds as part of a laboratory final exam. • Chapter Review for final exam. 	7
Stoichiometry	<ul style="list-style-type: none"> • Chapter 9 Homework and Learning Guides • Mole and Mass laboratory • Chapter 9 Assessments 	7