



Chemistry A & B

Grand Haven High School



Course Number: D51A / D51B

Grade Level: 11/12

Credits : 1

Prerequisite Courses : Biology

Course Description

This course is designed to meet the State of Michigan curriculum content expectations for Chemistry as both a GHHS and State of Michigan graduation requirement.

Chemistry is the study of matter, its structure, its properties, and the changes it undergoes. Students will learn about these physical and chemical changes and be able to relate the concepts to their everyday life. Laboratory experiments are done to reinforce Chemistry concepts and give first hand experiences with basic lab procedures and equipment. *A student having his/her own scientific calculator is strongly recommended. *The book, World of Chemistry, is accessible to students as a hard copy or an online book.

Course Objectives

The first semester focuses on concepts concerning matter, atomic structure, the periodic table, bonding, formula writing and naming, balancing chemical equations, and math calculations concerning formulas and equations.

The second semester focuses on specific chemical reactions, bonding, energy, gases, and acids and bases. Mathematical calculations and skills are also a main component of these topics.

Student Expectations

For Behavioral Expectations, see bottom of this page. All students and staff are expected to do their personal best in class daily. It is expected that students come to class ready to learn and are prepared to learn everyday. The classroom and laboratory have the potential to pose dangers to the student. Students will read and sign a Lab Safety Contract.

Communication

Students and parents have immediate access to grades by using the Student View and Parent View. Teachers of this course will provide communication to parents of poorly

Building Behavioral Expectations

TEAM GH ... One Team, One Family, One Grand Haven. Be Kind. Always.

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

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performing students (below a 70%) via email and/or phone. Teachers are available for parental contact by phone and email.

Grading Policy

Please see the link for the Science Department Grading Scale

This course has two graded categories:

Assessments (Tests/Quizzes): 65% of overall grade

Homework/Labs/Classwork/Other: 35% of overall grade

Scope and Sequence

1st Semester

Chapter 1: Chemistry-An Introduction

Chapter 2: Matter

Chapter 3: Elements, Atoms & Ions

Chapter 11: Modern Atomic Theory

Chapter 12: Bonding (sections 1, 2, 3)

Chapter 4: Nomenclature (Naming)

Chapter 6: Chemical Composition (Sections 1, 2)

2nd Semester

Chapter 7: Chemical Reactions

Chapter 8: Reactions in Aqueous Solutions

Chapter 9: Chemical Quantities

Chapter 10: Energy

Chapter 13: Gases

Chapter 15.2 (Molarity) and Chapter 16: Acids & Bases

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