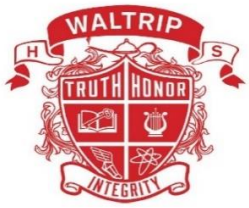

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Montessori Chemistry Course Syllabus 2022-23

Instructor: D. Loewenstein **Email**: dloewens@houstonisd.org **Room**: 3105

Waltrip Mission

Waltrip High School fosters a safe and challenging learning environment, preparing students for post-secondary education and a competitive global workforce through rigorous core academic instruction, comprehensive social-emotional supports, an array of quality fine arts programs, and comprehensive career and technology education.

Montessori Pathway Mission

The Montessori Pathway design is an integration of the current research in human development, the trends and issues in education, and the Montessori philosophy. The mission of the pathway is to provide opportunities for adolescents to be self-confident and gain self-knowledge, to belong to a community, to learn to be adaptable, to be academically competent and challenged, and to create a vision for their personal future; thus, to empower young adults.

Montessori Chemistry
Students enrolled in Montessori Chemistry are expected to:

- use the class study guide to plan work
- ask for help if they have questions
- come to class on time
- participate in lessons and synthesis
- work cooperatively with their small group to complete assignments

Course Content
In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

Text
The textbooks for the course are as follows:

- Modern Chemistry – located on Digital Resources through the HUB
- Weekly lesson organizers on Canvas

About the Teacher
This is my 26th year as a teacher. I love teaching math and science. I have a bachelor's degree in Engineering from Texas A&M University and a master's degree in Education from Endicott College. I believe Montessori education is a way to teach not just academics but to address the needs of the whole person.

Ongoing Objectives

- By the end of this course, the student will have mastered the reading, writing, speaking, and listening skills as written in the Texas Essential Knowledge and Skills for Chemistry.
- Students will conduct laboratory and field investigations using safe, environmentally appropriate, and ethical practices.
- Student will use scientific practices and equipment during laboratory and field investigations.
- Students will use critical thinking, scientific reasoning, and problem solving to make informed decisions within and outside the classroom.

Grading Scale

Grades are based on points earned on tests, quizzes, problems sets. Each category is weighted as follows:

*Lessons/Class engagement – **20%.***

- Students earn points in this category by participating in weekly lessons. Lessons will be posted on the HUB for viewing on Monday.
- Students earn points in the category by completing the weekly synthesis posted on the HUB.

*Exams/projects- **30%***

- Students earn points in this category by completing the assessments and projects located on the HUB under Plans.

*Classwork/group work – **50%***

- Students earn points in the category by completing the weekly assignments posted on the HUB. Individual work will be completed on the class OneNote Notebook and group work will be completed on the HUB.

A = 90%- 100% **B =** 80% - 89% **C =** 75% - 79% **D=** 70% - 74% **F=** 69% & below

Class Schedule

Students will attend class each day the class meets. On Mondays we will review the weekly lesson and go over the weekly expectations. On Tuesday/Thursday we will meet to go over guided practice and then students will be responsible for completing assignments on their own.

Attendance and Participation

Attendance and participation are required; it is difficult to learn the content if you are not present in class. You class participation and attendance can be a deciding factor if your class average straddles two grades.

Make-Up Work

1. It is the student's responsibility to obtain and make up work missed due to excused absences.
2. Make-up work is due one day after the student returns to school following an absence: If you miss school on Monday but return to school on Tuesday then your work is due Wednesday. If you are in school Monday but miss Monday's class, your work is still due on Monday; come see me before you leave early.

Retake Policy

1. You are permitted a maximum of **2** retakes for exams only.
2. The highest grade between the original and the retake is counted.
3. Semester Exams are not eligible for retake.

Handing in Assignments/Late Work

1. Always turn in your assignments to receive feedback.

2. All assignments are due **ON TIME**. Late assignments receive a maximum score of **90%** and are not permitted for extra credit points or retake/correction points.

Daily Required Materials

1. laptop 2. Pencil/pen

Unit Overviews

Matter
The study of matter, atomic structure and the periodic table.

Identity
The study of bonding and identifying molecules.

Change
The study of chemical change and chemical reactions.

Balance
The study of stoichiometry and solutions.

Pressure
The study of gases and the Gas Laws

Interaction
The study of thermochemistry and kinematics.

Please acknowledge that you have read and understand the information explained above.

_____ _____

Student Signature Print Name

_____ _____

Parent/Guardian Signature Print Name