

Name \_\_\_\_\_

**Chemistry - Chaviva High School  
2019-20 School Year**

Teacher: Mrs. A. Belsky

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**Course Description**

Chemistry comprises a systematic study of the predictive physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is how this course is organized. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, prediction and application (Ohio's Learning Standards for Science). In this class students will be engaged, and encouraged to ask questions in order to ignite a passion for lifelong learning.

**Class Overview**

*Course Goals*

- Students will gain a broad *understanding* of the basics of Chemistry. There will be minimal memorization.
- Students will learn and use the process of Scientific Inquiry throughout the year.
- Students will learn about the nature of science by learning how discoveries were made.

*Course Content*

Unit	Approximate Timetable	Chapter(s)
Matter and Measurement	September	1,2,3
Discovery of the Atom & Nuclear Chemistry	October/November	4,5,24
Periodic Table	November	6
Bonding and Chemical Reactions	December	7,8,9
Moles/ Stoichiometry	January	10,11
Gasses, liquids and solutions	February	12,13,14
Kinetics and equilibrium	February/March	15,16,17

Acids, bases and salts	March/April	18
Redox reactions	April	19,20
Organic Chemistry	May	21,22,23

### Course Materials

- Textbook (can be left in school, bring to class when asked)
- Note taking supplies
- Calculator
- Reference Tables

### Grading

- Attendance - 10%
- Quizzes/Tests - 45%  
There will be a short quiz each lesson on the previous lesson. This is because Chemistry builds and it is important that you understand what was previously taught. Tests are designed to be a learning experience. Students are able to correct their returned exams, with a written explanation of their corrections, and receive partial credit for their work. In this way, students are able to revisit their misconceptions.
- Homework/Classwork - 30%
- Class Participation/Conduct - 15%  
This will be graded daily.

I look forward to an exciting year together. I hope you will learn to understand and enjoy Chemistry. If any extra assistance is needed, please contact me. I will be happy to assist you!

