

Name _____

**Physical Science Course - Chaviva High School
2020-2021 School Year**

Teacher: Mrs. A. Belsky

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Course Description:

Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical perspective and mathematical reasoning. (Ohio Learning Standards for Science). In this course students will be engaged, encouraged to ask questions in order to ignite a passion for lifelong learning.

Course Goals:

- Students will gain a broad *understanding* of the basics of Physical Science. 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 Atoms	September	2,3,4
Bonding, Chemical and Nuclear Reactions	October	6,7,10
Electricity	November	20
Programing Basics - Arduino	December/January	
Motion	February	11
Forces	March	12
Energy	April	15
Thermal energy	April/May	16
Waves	May/June	17,18

Course Materials

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

Grading

- Attendance - 10%
- Quizzes, tests and assignments- 80%

There will be a short quiz each lesson on the previous lesson. This is because Physical Science builds and it is important that you understand what was previously taught. There are no makeups for missed quizzes. The lowest quiz grades will be dropped at the end of the semester.

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.

- Student engagement - 10%

This will be graded daily according to the school's rubric.

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

