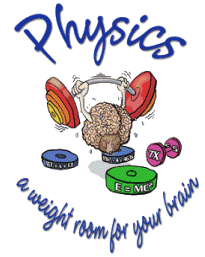




**Physical Science Honors**  
Syllabus  
Mr. Webber  
Webbert1@duvalschools.org  
www.physics-is-phun.org/home



## **Course Description**

You can't play a game if you don't know the rules, and the more you know the rules the more you enjoy the game. Science is the study of nature's "rules" – the rules and laws governing the universe in which you are a part. So, to learn science is to learn about ourselves and the arena of physical and natural laws that govern all aspects of our lives, from the atoms within our cells to the motions of galaxies and the energies in distant quasars! The purpose of this course is to provide opportunities to study the concepts, theories, and laws governing the interaction of matter, energy, and forces, and their applications. This course involves applied mathematics (algebra and geometry) and a science background at a basic level.

## **Cell Phone Policy**

No cell phones, tablets, or earbuds are allowed in the classroom – keep them quiet and put away! There will be times you may have your cell phone out, which will be announced by the instructor. Anyone caught using a cell phone will face the following discipline, as outlined in the Student Code of Conduct.

## **Major Units of Study**

**Semester 1:** The Nature of Science; Introduction to Chemistry; Introduction to Biochemistry; Chemical Reactions. Introduction to Physics; Kinematics and Dynamics.

**Semester 2:** Work, Power, and Energy; Mechanical Waves and Sound; Light; Thermodynamics; Gases and Pressure; Nuclear Chemistry; Electricity and Circuits.

## **Materials**

**Supplies:** Notebook/binder, pencil, scientific calculator (non-graphing is fine).

**Textbooks:**

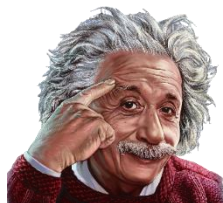
**Classroom Set:** *Foundations of Physical Science, Florida Edition.* CPO Science, Nashua, New Hampshire. 2011. ISBN: 978-1-60431-122-8.

**Online Textbooks:** *Florida Physical Science.* McGraw Hill, Columbus, Ohio. 2025.  
ISBN: 978-1-26-627188-5.

*Physical Science with Earth Science.* Glencoe/McGraw-Hill Companies, New York, New York. 2009. ISBN: 978-0-07-880248-5.

## **Grading**

Formative Assessments: 40%



Summative Assessments: 60%

In following with Douglas Anderson School of the Art's guidelines, grades will be assigned as follows:

A: 100-90

B: 89-80

C: 79-70

D: 69-60

F: 59-0

## Attendance and Tardies

- As with any educational endeavor, attendance, participation, and involvement are essential to the learning process. Your comprehension and understanding depends on you being here.
- You are expected to be in your seat and ready to begin when the bell rings. If not, you will be marked tardy. Three tardies will result in disciplinary action.
- If you are tardy, you must sign the log sheet at the front of the room.

## Honors Physics 1 Late and Missed Work

- Work is expected to be turned in on the due date. You will have class time to work on formative assessments, and they are often due at the beginning of class the following class. Late work will be reduced to 75%. No work will be accepted after a unit test and will result in a 0 in the gradebook.
- If you are absent, it is your responsibility to reach out to either the instructor or a colleague for any missed notes or assignments.
- If you miss a laboratory exercise with an excused absence, you may be exempted from the work (to be determined by the instructor).
- The Student Handbook outlines the policies regarding excused absences and make-up work. Communication and transparency with me is very important.
- If you have an excused absence and need to make up a test or quiz, it is by appointment only outside of class.

## Bathroom Passes

- Use the bathroom before coming to class.
- If excused to use the bathroom, you must fill out the log sheet and wear the appropriate badge. These badges are color-coded for each building – you may not leave Building 16!
- When leaving class, you must leave your cell phone.

## Food and Drink

- In accordance with Florida Law, no food, gum, or drink is allowed in a lab room.

## General Classroom Guidelines

- We practice and expect respect at all times – to our teacher, our classmates, and ourselves.
- We come to class prepared and excited to learn.
- We appreciate the value of education.
- We work to maintain a positive learning environment.
- We strive to do our best.
- We believe in academic integrity.
- We will keep our classroom and supplies neat.

## General Classroom Procedures

- We arrive to class on time, enter in a respectful way, and begin any bell work.
- We raise our hands to be recognized.
- We do not leave our seats unless given permission.
- We do not leave our trash on the floor. Trash is to be thrown out at the end of class.
- We do not eat, drink, or chew gum in this classroom.
- No cell phones or tablets!

## General Classroom Policies

- Work is to be turned in on the due date. Late work is subject to a 50% penalty.
- No work will be accepted after the unit test.
- **Any act of cheating results in a grade of 0 and an automatic referral. No exceptions.**
- Do not arrive late for class.
- Behavior that is not compliant with the student handbook will be addressed by the procedures outlined in the handbook.



**QUARTER 3**

<u>Unit 7: Energy, Work and Power</u> Timing: Approximately 8 days		<u>Unit 8: Waves, Sound and Light</u> Timing: Approximately 6 days		<u>Unit 9: Thermal Chemistry</u> Timing: Approximately 5 days	
Standards	Lessons	Standards	Lessons	Standards	Lessons
SC.912.P.10.1	Forms of Energy	SC.912.P.10.1 8	Properties of Waves	SC.912.P.10.5	Heat
SC.912.P.10.3	Work and Power	SC.912.P.12.2		SC.912.P.10.7	
SC.912.P.12.7		SC.912.P.10.1 8	Sound	SC.912.P.10.4	
SC.912.P.10.3	Law of Conservation of Energy	SC.912.P.12.7	Light	SC.912.P.10.7	Endothermic and Exothermic
SC.912.P.10.2		SC.912.P.10.1 8	Doppler Effect	SC.912.P.10.6	
		SC.912.P.10.2 1		SC.912.P.8.1	Phase Transition
				SC.912.P.12.1 1	

**QUARTER 4**

<u>Unit 10: Gases and Pressure</u> Timing: Approximately 1 day		<u>Unit 11: Nuclear Chemistry</u> Timing: Approximately 6 days		<u>Unit 12: Electricity</u> Timing: Approximately 8 days	
Standards	Lessons	Standards	Lessons	Standards	Lessons
SC.912.P.12.1 0	Gas laws	SC.912.P.10.12	Nuclear reactions	SC.912.P.10.1 0	Static Electricity
		SC.912.P.10.11	Fission and Fusion	SC.912.P.10.1 4	
		SC.912.P.10.12		SC.912.P.10.1 4	Electrical Current
		SC.912.P.10.11	Half-life	SC.912.P.10.1 5	
				SC.912.P.10.1 5	Electrical Circuits
				SC.912.P.10.1 0	Electromagnetism

## Acknowledgements

Please read and fill out this acknowledgement page and return to Mr. Webber. Keep the syllabus for your records.

I, \_\_\_\_\_, have read the syllabus for Physical  
Name of Student  
Science Honors. I understand Mr. Webber's Guidelines, Procedures, and Policies, including the use of cell phones and tablets, and the expectations of me, including the time and work expected outside of class. I also understand the consequences for not living up to those expectations. I recognize that science is a rigorous and diverse subject and that it will require discipline, planning, and studying on my part.

\_\_\_\_\_  
Signature of Student

\_\_\_\_\_  
Date

As the parent(s)/guardian(s) of the above named student, I/we also understand the Guidelines, Procedures, and Policies of Mr. Webber's class. In addition, I/we understand the academic demands of the course and will provide support to our student, Mr. Webber, and the class as a whole.

\_\_\_\_\_  
Signature of Parent/Guardian

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent/Guardian Email

\_\_\_\_\_  
Phone