

## PHYSICAL SCIENCE

email: [rhaber@osd.wednet.edu](mailto:rhaber@osd.wednet.edu)

website: <http://haberscience.weebly.com>

Ms. Rachel Haber

### OVERVIEW

Freshman science classes are meant to gather students from varied math and science backgrounds and prepare them for biology their Sophomore years. In this class we will study nature in an attempt to understand the universe in which we are situated. We are living in an era of discovery and progress, it is a fascinating time to be a part of science. Every day, we learn new and amazing things about our universe, from the behavior of subatomic particles to the composition of distant stars. We will use inquiry to discover some of the eloquent and universal laws that govern our world.

### COURSE OBJECTIVES:

- Provide students an introduction to physics and chemistry concepts including Motion, Force, Energy, Atomic Structure and The Periodic Table.
- Introduce high school level experimentation and data analysis techniques through physical science labs.
- Provide students a solid understanding of the inquiry process and nature of science for use in future science courses and their lives.
- Teach technical literacy to interpret and appropriately utilize graphs and data.
- Inspire curiosity in science to encourage further study.

### COURSE MATERIALS:

- Text: Physical, Earth, and Space Science: An Integrated Approach, by Tom Hsu (First Edition).
- Students are required to maintain an organized section in their notebooks for Physical Science notes, handouts and labs.
- Students should come to class with a graphing or scientific calculator (phones may not be used as calculators).

### COMPUTER USE:

This course will make extensive use of graphing and data analysis using LoggerPro. This software is available for students to download and use at home for free.

### GRADES:

We will use class time to discuss strategies for science reading, science writing and science tests. Students who pay attention and participate in class should be fully prepared to succeed in the class not only because they understand the content but also because they understand and know how to take part in the unique processes required.

- Tests, labs and homework will all be assigned a point value. Grade cut off will be based on a certain number of points. We will stick with the grade cut offs used in the majority of science classes at Olympia High School.

### TESTS:

Closed note tests will follow each unit. All work (labs and home work) must be turned in prior to the testing date in order to be eligible for test corrections. If you are absent for a test, you must arrange to take it on your own time (Bear time, lunch, after school) within a week of the original testing period.

### HOMEWORK:

Classwork and homework will be completed in packets and designated science notebooks that will be turned in on test days prior to taking the test.

## **ABSENCES:**

Come talk with me before a known absence. If you are absent, **assignments become due when you return to school unless you negotiate a new due date. Tests are to be made up on the day you return.** If you miss a **lab** you must arrange a time to come in after school to complete a make-up lab, within one week of your absence. You can always see the class website for homework assignments and due dates.

## **CELL PHONES**

Technology is a wonderful thing and we are likely to have situations where having a cell phone is extremely helpful. Bring your phone to class but it must be on **silent**. While I or anyone else is talking to the class is *never* an appropriate time to be using your phone.

## **INTEGRITY**

High school is a good time to realize that no grade is worth more than your integrity. The word integrity has the same Latin root as integer, meaning whole. A person without integrity is not whole; half of them is a polite student but the other half is someone who will cheat to gain an advantage. Live with integrity. Don't get into the habit of cheating in high school. It will not serve you well in life.

## **Be Proactive: when you need help, ask for it!**

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_

If I need to contact you (the parent), which email and phone number would be best?

Name: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

(optional secondary)

Name: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_