

Syllabus

Robert E. Lee High School

Physical Science 2014-2015

General Information

Instructor: Ms. R. Haywood

Room: 860

School Phone: (904) 381-3930 ext. 2860

Professional Email Address: haywoodr3@duvalschools.org

Gaggle Email Address: haywoodr3@students.duvalschools.org

Class Website Address: justscience.us

Email is the best method of contact and responses will be sent in a timely manner.

Textbook

Textbook: Hsu, Tom. Foundations of Physical Science. 3rd Edition. Florida edition. School Specialty Science

Online Textbook: Hsu, Tom. Foundations of Physical Science. 3rd Edition. Florida Ed. <http://linktoscience.schoolspecialty.com>

(Information for accessing the online textbook will be provided to student)

Course Description

The Physical Science curriculum is designed to continue the investigation of the physical sciences initiated in earlier grades. The Physical Science course will build a rich knowledge base to provide a foundation for the continued study of science.

The investigations should be approached in a qualitative and quantitative manner in keeping with the developing mathematical skills of the students. The curriculum will integrate the following topics from both chemistry and physics:

- Structure of atoms
- Structure and properties of matter
- Motions and forces
- Conservation of energy, matter and charge

Course Objectives

The Physical Science I course aims to introduce the student to basic concepts of matter and energy, how they are related in the physical world, theory and its practical application, laboratory procedures, problem solving, and mathematical analysis, as well as broaden scientific skills. The skills learned in this course will be transferable to other course, post-secondary education, the professional world, and your personal life. This course also aims to raise the awareness of the student to moral/ethical, social, economic and environmental implications of science and technology, which will aid students in making sound decisions regarding the world in which we all live in. To this end, students are expected to:

1. Demonstrate an understanding of scientific facts/concepts, methods/techniques, and terminology by mastering all assessed benchmarks.
2. Apply scientific facts/concepts, methods/techniques, and terminology to real-world situations.
3. Cultivate critical and strategic thinking skills in order to analyze and draw conclusions about academic, personal, professional matters.
4. Develop interpersonal skills needed for effective collaboration and cooperation.
5. Persevere and become academically conscientious.

Instructional Delivery Model

The Blended Learning Classroom Model: This year, this Physical Science course will be run according to a model called the “Blended Learning classroom model”. The question that usually pops up is what is the “Blended Learning classroom model” ?

The short version is that the “Blended Learning classroom” takes the traditional model of lecture at school, work problems at home and flips it. Baseline information (topic notes), will be watched in a video at home and then more in depth, higher level discussion, labs, and problem solving will be conducted in the classroom in a supportive atmosphere. This allows for students to come to a higher level understanding of the concepts, challenges them to take charge of their own learning, and teaches them to manage their time and resources more efficiently. This model allows students to learn a series of objectives at their own pace. Instead of all students working on the same topics at the same time, students will pace themselves through the curriculum while demonstrating mastery, 80% or higher, on each predetermined objective.

Tentative Learning Schedule

First Semester	Second Semester
Unit 1 — Introduction	Unit 7 — Energy, Work, and Power
Unit 2 — Introduction to Chemistry	Unit 8 — Waves, Sound, and Light
Unit 3 — Matter	Unit 9 — Thermal Chemistry
Unit 4 — Chemical Reactions	Unit 10 --- Gases and Pressure
Unit 5 --- Motion	Unit 11--- Nuclear Chemistry
Unit 6 --- Forces and Motions	Unit 12 --- Electricity
	Unit 13 --- Bridge to Physical Science/ CGA Post Exam

Grading

All course work will be graded upon the ten point grading scale. Each benchmark will be assessed formally and informally multiple times throughout the course, therefore giving students multiple opportunities to reach mastery (80% or higher). Students will be graded heavily upon their performance on class, district, and state assessments while all other assignments will be graded upon completion. Although assignments will be graded based on completeness, students are expected to complete their work with accuracy.

Graded Material	Percentage
Assessments	70%
Discussions, Labs, & Projects	15%
Class work & Homework Assignments	15%

Letter Grade	Percentage
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	59-0%

Mid-Quarter progress reports will be issued during each quarter. However, it is the student's responsibility to keep track of your grades. Students will track all graded work in their interactive notebook to help with this matter.

Science Supplies

The following supplies are required for course and laboratory investigations. *(If any student is unable to purchase these supplies please inform your teacher during the first two weeks of class)*

2— 1 subject spiral notebook (80-100 pages)

1 — 2 pocket report folder with prongs

1 — ream of copy paper

1 — pack of blue & black ink pens

1 — pack of #2 pencils

1 — notebook pencil/pen holder

1 — pack of markers

1 — pack of colored pencils

2 — different color highlighters

1 — simple four function calculator (Not a Cell phone)

1 — 1GB or larger thumb-drive

1 — roll of paper towels

1 — box of tissue

1 — bottle of liquid soap

1 — bottle of hand sanitizer

1 — container of disinfecting wipes

Expectations

Preparation: Be prepared to learn when you walk into the classroom.

Come to class well-rested, on time, with all of your materials needed for that day, with homework completed, mentally ready to work, and with enthusiasm, focus, and positivity.

Respect: Respect your school, your classroom, your classmates, your teacher, and yourself.

Respect is not just given, it is earned. You will earn it by following all school policies, by coming to class prepared, working hard, telling the truth, and treating others respectfully; let the small stuff go and leave your problems at the door. I will earn your respect by being prepared, by being fair to all, and by working as hard as I can to help you succeed.

Participation: Actively participate in classroom activities.

Silence in the classroom does not always mean you understand. By actively participating (i.e. asking questions, answering my questions, taking notes), I know that you are following the lesson and pushing your minds for understanding. Knowledge is not given to you; learning is an active process and requires hard work.

Determination and Perseverance: Work hard; do your very best.

The learning process often involves making mistakes. Mistakes are not failures; the only failure that springs from making mistakes is “throwing in the towel” and giving up. We all learn in different ways, at different paces; limit your frustration by realizing mistakes are learning opportunities and by seeking help when needed.

Consequences

- First Violation — Verbal Warning
- Second Violation — Parental Notification
- Third Violation — Referral to House Administrator
- Depending on the severity of the offense the teacher reserve the right to skip levels consequences.

Learning Environment Policies

Attendance / Absent Policy — You are expected to be in class every day and complete any and all work that you miss including practice, labs, quizzes, and tests. You will not be excused from any assignment due to an absence; even if you have an excused absence.

Tardy Policy — Do not be late to class. We work bell to bell every day. Students will be consequence according to the school tardy policy and may lose classroom privileges.

Office Hours — I will be available for additional tutoring and tests/quizzes retakes after school on designated days in my room. If you need to make other arrangements it is your responsibility to talk to me in advance and we can determine a mutually acceptable time. Note: After school times are subject to change and will be announced in class.

Non-Mastered Assessments — If you have failed to demonstrate mastery of a lesson or unit assessment (80% or higher) you will continue to receive remediation until you have reached mastery. An alternate assessment may be assigned at the teacher’s discretion. All assessments must be completed by the unit deadline.

Hall Passes — Bathroom passes will not be issued under any circumstances during the first 20 minutes of class, last 20 minutes of class, during assessments, or during labs. Students should use the bathroom pass sparingly during independent work time only.

Food/Drink — Students may only have water and candy in class. No other food (including chips, lunch, soda, etc) is permitted. Students may not sell food or drinks during class even if it is for an authorized fundraiser. All trash must find its way to a garbage bin.

“I Respectfully Disagree” Policy — If a student is given a consequence during class and they disagree with it they may voice their concern with the teacher in a respectful manner. To do so a student should silently raise their hand and state, “I respectfully disagree with…” The teacher will acknowledge that the student disagrees. The student is still required to

comply with the teacher's consequence. However, the teacher agrees to meet with the student after class (or at another time) to address the concern and fully explain to the student why the consequence was given. The teacher may also acknowledge an error in judgment and apologize for their mistake. The most important part of this policy is that under no circumstances does the student have the right to escalate a disagreement with the teacher into a larger conflict. Students have an avenue to respectfully disagree and should use it to ensure they are being treated fairly.

Checking Your Grades — All grades will be updated in OnCourse every Sunday night. If you do not have access to OnCourse please talk with the guidance department and get a login. This will be the only way for students to check their grades unless they stay after class. Progress reports and/or scholarship warnings will be sent home every 4 to 5 weeks.

Academic Dishonesty — Any form of academic dishonesty will result in an automatic zero for the assignment. You will not be allowed to make up the assignment. Academic dishonesty includes but is not limited to cheating, doing someone else's work, plagiarism, etc.

Once again, Welcome to Mrs. Haywood's Physical Science class. Let's work together to make this year the best ever! If you have any questions or concerns or if you would like to visit our classroom, schedule a conference, or volunteer to help out, you can contact me via email haywoodr3@duvalschools.org. I will do my best to return the correspondence within the week in which it was initiated.

As a student of Mrs. Haywood's Physical Science class, I have read, and understand the class syllabus.

Name (printed): _____ Date: _____

Student's Signature: _____ Date: _____

As a parent/guardian of the student listed above, I have discussed the course requirements mentioned above with him/her. If I have questions regarding the class I will email Mrs. Haywood at haywoodr3@duvalschools.org or call her at (904) 381-3930 ext. 2860

Signature: _____ Date: _____

**The classroom policies in this course outline may change as needed.*