

**Henry County High School****Physical Science Course Syllabus****Instructor:** Neidra Ninan/Joanie Snow**Email:** neidra.ninan@henry.k12.ga.us

Jsnow@henry.k12.ga.us

**School Phone:** 770-957-3943**School Web Page:** www.henry.k12.ga.us/hchs**County Web Page:** www.henry.k12.ga.us/

**Course Description:** Physical Science is the study of matter and energy. It is an introductory lab based science course. The first semester is the study of physics and will deal with how matter and energy are related and how energy is transferred through matter. You will learn the various forms of energy and how they affect us. The second semester will deal with chemistry, which is a study of the composition of matter and how it behaves.

**Course Objectives/Standards\*:** The student will...

- SPS1. Investigate our current understanding of the atom
- SPS2. Explore the nature of matter, its classifications, and the system for naming types of matter.
- SPS3. Distinguish the characteristics and components of radioactivity
- SPS4. Investigate the arrangement of the periodic table
- SPS5. Compare and contrast the phases of matter as they relate to atomic and molecular motion
- SPS6. Investigate the properties of solutions
- SPS7. Relate transformations and flow of energy within a system
- SPS8. Determine relationships among force, mass, and motion
- SPS9. Investigate the properties of waves
- SPS10. Investigate the properties of electricity and magnetism

*\* The above standards were obtained from the Georgia Performance Standards developed by the Georgia Department of Education ([www.georgiastandards.org/science.asp](http://www.georgiastandards.org/science.asp))*

**Units of Study:** (Subject to change)**1<sup>st</sup> Semester**

1. Laboratory Safety & Nature of Science
2. Measurement
3. Motion and Forces
4. Acceleration and Momentum
5. Energy and Thermal Energy
6. Machines
7. Waves and Sound
8. Light
9. Mirrors and Lenses
10. Electricity
11. Magnetism

**2<sup>nd</sup> Semester**

1. Nature of Science
2. Measurement
3. Nature of Matter
4. Classification of Matter
5. Atomic Structure
6. Families of Elements
7. Chemical Bonds
8. Chemical Reactions
9. Acids, Bases, Salts, and pH
10. Organic Chemistry

**Materials Needed:**

- 3-ring binder notebook with paper
- Pen or pencil
- Physical Science book
- Calculator
- Ruler
- Dividers
- In these times of lean funding for schools, we find that some basic staples are in limited supply. We need paper towels, hand soap, dishwashing detergent, and Kleenex. If you are able to donate any of these items, the students would be greatly appreciative.

**Text:** Physical Science: Concepts in Action, published by Pearson/Prentice Hall

**Grading Policy and Procedure:**

- 40% Tests
- 35% Labs and Quizzes
- 25% Daily grades

**Contacting the Teacher:** Email ([neidra.ninan@henry.k12.ga.us](mailto:neidra.ninan@henry.k12.ga.us) or [jsnow@henry.k12.ga.us](mailto:jsnow@henry.k12.ga.us) ) is a great way to keep up with your child's progress and is the best way to contact me. You may also call the school and leave me a voice mail. We can set up phone and face-to-face conferences as well.

**Class Site:** To visit the class website, go to the HCHS site ([www.henry.k12.ga.us/hchs](http://www.henry.k12.ga.us/hchs)), click Teachers, and find my name on the list. Class news and announcements will be posted here, and you can also find the course schedule and links to assignments and class notes.

**Late assignments:** You are encouraged to make up missing work. A 20% penalty will be assessed on late assignments. Tests can be retaken.

**Classroom and Discipline Procedures:** Your behavior in my classroom should be no different than that expected in your other classes. You should refer to your student handbook for expected and prohibited behaviors. The following are specific rules I expect you to follow while in my room.

- Be on time. Students tardy without a pass will go to the attendance office for a pass and will serve detention.
- Do not write on the desks. If you are caught you will clean or repaint the desk as needed.
- No electronic devices visible in class.
- Follow dress code expectations.
- Don't throw paper at the trashcan or each other.
- Stay in your assigned seat until you have permission to sit somewhere else.
- No food or drink in the classroom other than water.
- Bring book, 3 ring binder, and writing implement to class every day.

**Make-up Policy:** The student is responsible for getting the missing assignments and or test upon their return to school. Ask your instructor for the missed assignment, or the assignment may be listed on the instructor's school web site. In the event that you are absent, any missed should be made up in 3 days. If more than one day is missed, a reasonable amount of time will be given by your instructor. If the paper is turned in after that date it will be counted late. The rules for late work will then apply.

## Parent Information & Acknowledgement Form

*Please complete the form below and have your child return it to Ms. Ninan*

**Parent/Guardian Name:** \_\_\_\_\_

**Home Address:** \_\_\_\_\_

**Home phone:** \_\_\_\_\_ **Work phone:** \_\_\_\_\_

**Cell phone:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

### Syllabus Acknowledgement Statement

We hereby acknowledge that we have read and understand the course expectations, procedures, and guidelines for Physical Science for the 2013-2014 school year.

\_\_\_\_\_  
Student Name (please print)

\_\_\_\_\_  
Parent Name (please print)

\_\_\_\_\_  
Student Name (signature)

\_\_\_\_\_  
Parent Name (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date