

PHYSICAL SCIENCE SYLLABUS

Instructor: Ms. D. L. Wilson

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School Web Page: www.henry.k12.ga.us/hchs

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Course Description: Physical Science is the study of matter and energy. It is an introductory lab-based science course. The first 9 weeks is the study of physics and will deal with how matter and energy are related and how energy is transferred through matter. The second 9 weeks will deal with chemistry, which is a study of the composition of matter and how it behaves.

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

- ✓ SPS1. Obtain, evaluate, and communicate information from the Periodic Table to explain the relative properties of elements based on patterns of atomic structure.
- ✓ SPS2. Obtain, evaluate, and communicate information to explain how atoms bond to form stable compounds.
- ✓ SPS3. Obtain, evaluate, and communicate information to support the Law of Conservation of Matter.
- ✓ SPS4. Obtain, evaluate, and communicate information to explain the changes in nuclear structure as a result of fission, fusion and radioactive decay.
- ✓ SPS5. Obtain, evaluate, and communicate information to compare and contrast the phases of matter as they relate to atomic and molecular motion.
- ✓ SPS6. Obtain, evaluate, and communicate information to explain the properties of solutions.
- ✓ SPS7. Obtain, evaluate, and communicate information to explain transformations and flow of energy within a system.
- ✓ SPS8. Obtain, evaluate, and communicate information to explain the relationships among force, mass, and motion.
- ✓ SPS9. Obtain, evaluate, and communicate information to explain the properties of waves.
- ✓ SPS10. Obtain, evaluate, and communicate information to explain the properties of and relationships between electricity and magnetism.

The above standards were obtained from the Georgia Standards of Excellence developed by the Georgia Department of Education (www.georgiastandards.org/science.asp)

Units of Study: (Subject to change)

1st 9 weeks

1. Laboratory Safety
2. Force, mass & motion
3. Machines
4. Transformation & flow of energy
5. Wave properties
6. Electricity & magnetism

2nd 9 weeks

1. Classification of matter
2. Phase changes
3. Atomic structure
4. Periodic table
5. Chemical bonding & naming
6. Conservation of mass & balancing equations
7. Types of reactions
8. Properties of solutions
9. Acids, bases, salts & pH
10. Nuclear chemistry

Materials Needed:

- 3-ring binder notebook with paper
- Pen or pencil
- Calculator
- Ruler
- Dividers
- Headphone compatible with the chrome book

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- 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:

	Practice Work (40%)	Assessment Task (40%)	Exam: 20%
Science 100.0% - 90.0% = A 89.0% - 80.0% = B 79.0% - 74.0% = C 73.0% - 70.0% = D 69.0% - 0.00% = F	Class work, homework, formative assessments, diagnostics assessments, written reflections	Constructed response assessments, selected response assessments, reflective assessments, summative unit assessment, culminating performance tasks, projects	<u>Milestone will count 20% of Final Grade</u>

Contacting the Teacher: Email (dorothea.wilson@henry.k12.ga.us) is a great way to keep up with your child's progress and is the best way to contact us. You may also call the school and leave 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), click Teachers, and find Ms. D. L. Wilson's name on the list. Class news and announcements will be posted here, and you can find the course schedule and links to assignments and class notes.

Late assignments: You are encouraged to make up missing work. Late work will be assessed a 30% penalty.

Classroom and Discipline Procedures: Your behavior in our classroom should be no different from 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.
- **Electronic devices are only visible when being used for instruction.**
- **Follow dress code expectations.**
- **Stay in your assigned seat until you have permission to sit somewhere else.**
- **No food or drink in the classroom other than water.**
- **Bring a book, 3 ring binder, and writing gadgets to class every day (headphone as well).**

Distance Learning Expectations

SLANT for Online Success S- Space for learning, L- Look at the screen, A- Ask Questions, N- Nod your head, and T- Talk to Others. (SLANT)

Make-up Policy: Attendance is mandatory!! It is the student's responsibility to obtain any make-up work while they were absent. The number of days allowed to complete make-up work will not exceed the days you were absent. Failure to comply with this procedure will result in a grade of zero being given for the graded assignments missed during an absence. All make-up work should be labeled as such (Make-up), include date of absence on all make-up work. Please put your make-up work in my hands.

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Sincerely,
Ms. D. L. Wilson

The 2020-2021 school year will offer many opportunities for students to learn to grow, both academically and personally. We are glad to have this opportunity to work with you as we strive together to reach the academic goals of your child.

Parent Information & Acknowledgement Form

Please complete the form below and have your child return it to Ms. D. L. Wilson

Parent/Guardian Name: _____

Home Address: _____

Home phone: _____ **Work phone:** _____

Cell phone: _____

Email Address: _____

Syllabus Acknowledgement Statement

I hereby acknowledge that we have read and understand the course expectations, procedures, and guidelines for Physical Science for the 2020-2021 school year.

Parent Name (please print)

Parent Name (please print)

Parent Name (signature)

Parent Name (signature)

Date