**Science in the Physical World**

**2013-2014**

**Tag/Advanced Syllabus**

**Teachers**:

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**Teacher Websites:**

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**Text:**

*Holt Science and Technology-Physical Science,* Holt, Rinehart and Winston*,* 2008, **Cost: $70.75**

**Course of Study**

The 8th Grade Physical Science curriculum provides students with the necessary knowledge and skills to transition from elementary physical science standards to high school physical science standards. The course is designed to provide students with an introductory overview of the common concepts in physical science including but not limited to the nature of matter, laws of conservation of matter and energy, motion, forces, and energy transformation. These concepts are investigated through observing, collecting, summarizing, analyzing, and presenting, results of scientific investigations and fieldwork designed for students to develop the appropriate skills in science as inquiry.

## Standards/ Expectations (From the Georgia Performance Standards, GPS)

**Characteristics of Science:**

1. Students will explore the importance of curiosity, honesty, openness and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.
2. Students will use standard safety practices for all classroom laboratory and field investigation.
3. Student will have the computation and estimation skills necessary for analyzing data and following scientific explanations.
4. Students will use tools and instruments for observing, measuring, and manipulating equipment and material in scientific activities utilizing safe laboratory procedures.
5. Students will use the ideas of system, model change, and scale in exploring scientific and technological matters.
6. Students will communicate scientific ideas and activities clearly.
7. Students will question scientific claims and arguments effectively.
8. Students will be familiar with the characteristics of scientific knowledge and how it is achieved.
9. Students will understand the features of the process of scientific inquiry.
10. Students will enhance reading in all curriculum areas.

**Content Standards:**

1. Students will examine the scientific view of the nature of matter.
2. Students will be familiar with the forms and transformations of energy
3. Students will investigate relationship between force, mass, and the motion of objects.

|  |  |
| --- | --- |
| 100-90 | A |
| 89-80 | B |
| 79-70 | C |
| Below 70 | F |

1. Students will explore the wave nature of sound and electromagnetic radiation.
2. Students will recognize characteristics of gravity, electricity, and magnetism as major kinds of forces acting in nature.

**Grades will be weighted as follows Fulton County Grading Policy**

|  |  |
| --- | --- |
| Classwork/Homework | 10% |
| Quizzes | 20% |
| Labs | 20% |
| Tests/Projects | 35% |
| Semester Final | 15% |
| Total | 100% |

**\*\*Academic Honesty Policy on page 2 in the student AGENDA\*\***

**Scheduled Help Sessions**

\*Students may see any teacher for help. Please see that teacher for a pass the day before.

\*Teacher need 24hrs to accommodate additional sessions. It is the student’s responsibility to set these appointments.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Before School | Chratian J110 | Broadwell I107 | Crawford E117 | Medina E115 | Huston E106 |
| After School |  Rioux E104 |  | Rioux E104 |  |  |

**Science Organization**

Each student will keep a science binder with an interactive notebook inside. In this binder students will archive class notes, homework, assessments and other handouts. The science binder is the primary study tool for major assessments. Students will also keep a lab book with all of their labs. This lab book is another primary study tool for major assessments.

**Lab Safety**

The concepts of physical science are best learned in an investigative lab setting. Basic safety rules will be followed at all times. Failure to follow lab procedure and safety guidelines will result in a zero for the lab in question, as well as a possible office referral. These safety rules are for your protection and will be followed at all times.

**Homework**

Homework may or may not be assigned daily. If a student has no assigned homework, then reviewing, rereading, summarizing and general studying are strongly encouraged. Homework will be checked in class, and is generally due at the beginning of class on the due date.

**Quizzes and Formal Assessments**

Assigned quizzes and pop quizzes will be used to evaluate student progress. At the end of each unit of study students will be formally assessed. These assessments may be traditional tests, performance assessments, projects, or any combination of these. Students will be given, or have access to a unit checklist at the beginning of each unit to assist their preparation for these assessments.

**Semester Final**

A comprehensive semester final will be given at the end of each semester. The final will cover all material studied for that semester. The final exam is the same for all science students.

**Makeup Work Due to Absence**

FCBOE policy allows for makeup work in the following manner: student is allowed one day per day of excused absence to make up any missed assignments. You are responsible for obtaining missed assignments, as well as making sure that they are turned in. All assignments missed will be assigned a grade of zero until they are made up. After the allowed makeup time, the assignment will not be accepted and the zero will remain. Remember, tests, quizzes and labs are also included in this category of makeup work.

**Recovery Policy**

***From the FCBOE Policy:***

B. Provision for Improving Grades

1. Opportunities designed to allow students to recover from a low or failing cumulative grade will be allowed when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements including attendance.
2. Teachers will determine when and how students with extenuating circumstances may improve their grades.

**All policies in this syllabus are subject to revision at the discretion of the teacher if circumstances warrant.**