



## PHYSICAL SCIENCE COURSE SYLLABUS

(40.0110000E)

CROSS KEYS High School

Teacher(s): **Anthonia Okonkwo**

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Semester: **Fall 2008**

Tutorial Days: **Mondays and Thursdays**

Textbook: **Science Spectrum: A physical approach**

Tutorial Hours **3:30-4:30p.m**

Textbook Price: **\$**

Tutorial Location: **Rm. 212**

**Department Philosophy:** The belief of the Science Department of Cross Keys High School is that all students are educable. We will use differentiated instructional techniques to reach each student because we know that students have different needs and modalities of learning. This department understands the need for higher-order thinking skills, coupled with excellent communication skills, in order to create well-rounded and productive citizens. For this reason, we are committed to excellence in our instructional preparation and delivery. Student achievement is our primary goal and we will work collectively to create an environment that is conducive to learning.

**Course Description:** During this semester, students will investigate the composition of matter and its interactions. The historical development and modern theory of the atom will be studied. Students will use the periodic table to apply principles of the atomic theory, to describe the chemical relationship of elements, to predict bonding, and to write formulas for compounds. Students will describe chemical reactions by using balanced equations. Nature of forces, energy, work, power, electricity, magnetism, waves, sound and light will be studied. Students will perform laboratory experiments that complement the material. This course will incorporate the **END OF COURSE TEST OBJECTIVES**.

### Course Outline:

<b>Unit 1</b>	Motion and Forces	<b>Unit Understanding:</b> All matter is acted upon by a variety of forces. Motion results when the forces acting on an object are unbalanced.
<b>Unit 2</b>	Energy Transformations	<b>Unit Understanding:</b> Energy can neither be created nor destroyed but can be transferred or transformed among many forms.
<b>Unit 3</b>	Atomic Theory	<b>Unit Understanding:</b> All matter is made up of minute particles (molecules, atoms, subatomic particles).
<b>Unit 4</b>	Chemical Bonding and Properties of Matter	<b>Unit Understanding:</b> Interactions among the molecules that make up matter determine its observable properties.
<b>Unit 5</b>	Electricity and Magnetism	<b>Unit Understanding:</b> Electromagnetic forces are strong forces created by the movement of charged particles.

## Grading Scale\*

Area	Percentage	Area	Percentage
Class work/Daily Work/Homework	20.		
Projects	15	Labs	25
Tests/Quizzes	30	Cumulative Semester Exam	10

**\*This class has a standardized End of Course Test (EOCT). The categories above represent the classroom grade, which will count for 85% of the final course grade. The EOCT will make up the remaining 15% of the final course grade, as mandated by the state of Georgia.**

#### **Required Materials:**

- Textbook
- 3 ring binder with dividers
- Ink pens
- Pencils
- Scientific Calculator
- Composition book
- Soap, Kleenex, Paper Towels, Hand Sanitizer.
- Colored Pencils.

#### **Classroom Expectations:-**

- Follow rules and regulations as stated in the Students Handbook found in your agenda.
- Be in your seat and ready for class when the tardy bell rings.
- Be prepared and bring required supplies to class.
- Respect teachers, peers, and property.
- Consume food, and drinks in the Commons only.

**Late Assignments:** Late assignments must adhere to the CKHS make-up policy. (See below)

#### **Make-up Policy:**

**Students may make up work that has been missed because of an EXCUSED ABSENCE.**

**It is the student's responsibility to see that this is done at the teacher's convenience, outside of the regular class period within three days of his/her return. If the work is not completed, the student receives a zero for the incomplete work.**

#### **Redo Policy:**

All Science students will be able to re-do a test on which they scored a 69 or below provided that they have 100% homework completion and attend a tutorial session with the science teacher. The re-do must take place within one week from the day the test is returned. It is expected that re-do tests will be administered before or after school.

**Laboratory Rules:** See the Safety Contract. YOU MUST WEAR GOGGLES IN THE LAB! Points

will be deducted for not following the FEDERAL LAW! Your signed safety

contract MUST be on file before working in the lab.

**NOTE:** The teacher may change this syllabus at any time to better meet the needs, interest, and abilities of the students.

**Please sign the below form and return to class the following day.**

- I have read and understand the course syllabus and expectations.
- I am aware that the End Of course Test will count for 15% of the grade in this course.

**Student Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Parent/Guardian Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Parent/Guardian Phone Number**

\_\_\_\_\_

**(Please give best number to contact you with!)**