**Physical Science**

**2016-2017 Course Syllabus**

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Room: S214

Textbook: *Conceptual Physics*; Paul Hewitt & *Chemistry Concepts and Applications;* Glencoe

Required Materials:

* **Calculator (It is best if you always have your own. I do not have a class set.)**
* Pencils and an eraser
* Notebook paper and graph paper (this will make drawing easier)

\*\*\*\*\*It is the student’s responsibility to have required materials ready at the beginning of every class period.\*\*\*\*\*

Prerequisites: Physical Science is one of the science courses needed for graduation. While there are no official prerequisites, it is assumed students have passed at least one other science class and basic algebra.

Course Description: Physical Science provides a broad overview of both physics and chemistry. Students will learn about systems of measurement, unit conversions, one and two dimensional motion, Newton’s three laws of motion, momentum and energy. Additionally, students will learn about atomic structure, chemical compounds, bonds, and reactions.

Grade Distribution:

50% Tests

30% Quizzes

20% Classwork (Practice, Labs, Projects)

Grading Scale: (Rounded from nearest tenth of a percent)

A: 90-100%

B: 80-89%

C: 70-79%

D: 60-69%

These will include unit exams, chapter exams. Semester and unit exams are cumulative. Students are allowed a formula sheet and calculator on all summative assessments. Semester finals are 10% of the overall course grade.

General Expectations: Science classes can be very challenging. It requires self-study and critical thinking skills. Students will be expected to put in time and effort outside of class time if they wish to get a high grade in this course. They will need to read, research, and create study aids to master the material. Internet access is very helpful outside of class time. If this is not possible at home, the student must be willing to spend time on school computers before or after regular school hours and/or go to the public library. Simply coming to class each day is not enough to get an A or B.

Students are expected to come to class prepared to learn each day. They will need their textbooks and required materials to be ready when the bell rings. Class discussions will be a regular part of our learning process. All students are expected to participate. A system of randomly selecting students to answer questions, demonstrate problems, or explain concepts will be employed to ensure equal participation.

Students must ask questions if they do not understand something or need clarification. Time will be allotted for student questions during each lecture. Ask your teacher, do your own research, or ask a fellow student if you are stuck. Part of learning is knowing what you don’t know and asking questions.

Group Expectations: Many projects and lab activities in Physical Science will require students to work in groups of two or more. Usually you will be assigned a group or partner unless otherwise notified. Grades will be determined for both the group and the individual participants. Each member of the group must participate equally and turn in their own work. Treat all members in your group with kindness and respect.

\*\*\*\*\*It is the student’s responsibility to make arrangements for make-up labs, quizzes, and tests, and to learn the missed material when they are absent.\*\*\*\*\*

Lab Safety: Laboratory safety is taken very seriously at Ray Pec. All students must successfully complete a lab safety lesson and pass a safety quiz with an 85% or better before participating in lab activities. Violating a lab safety rule will result in the student being removed from the classroom and a zero for the activity. The lab cannot be made up under any circumstances.

Course Schedule:

Chemistry – 1st Semester

1. Safety, Graphing, Metric System
2. Matter & Atomic Theory
3. Periodic Table, Chemical Compounds, Bonds, Reactions
4. Stoichiometry
5. Energy Transfer & Conservation

Physics – 2nd Semester

1. Safety, Graphing, Metric System
2. Linear Motion & Projectiles
3. Newton’s 3 Laws of Motion
4. Energy, Momentum,
5. Circular Motion, Gravitation, Magnetism

**LATE WORK POLICY**

At Raymore-Peculiar High School, academic achievement, student responsibility, and student success are of paramount importance. In an effort to pursue these ends, RPHS is revamping our policy for late work. Beginning with the 2013-2014 school year, all homework, assignment, or project deadlines will be strictly adhered to as defined by the classroom teacher. Student failure to complete work by an established deadline will result in a corresponding grade that matches the completed nature of the content being submitted at the time of the deadline. Students who fail to submit any work at the time of a deadline can expect that a zero will be entered for their grade.

**REDO POLICY**

With the above policy being implemented, however, the staff and administration at RPHS fully understand that all students learn at different rates and under different parameters, and we believe that every student should be afforded the opportunity for academic success. Therefore, in an attempt to honor our commitment to student success, RPHS will provide our students with the opportunity to “relearn/redo” information based on specific and timely teacher feedback. Throughout the course of the semester, students will be afforded three opportunities in each of their classes to redo homework, assignments, or projects which they did not complete or submit by a required deadline. It is very important to note that the purpose of this policy is to provide students with genuine opportunities to relearn information, ***not to provide unlimited opportunities to redo materials.***

Before students are allowed to redo any material, they will be required to visit with the classroom teacher to establish the relearning parameters (a relearning contract if you wish) that must be fulfilled to demonstrate their efforts to relearn the information. In order to begin the relearning process, it will be the sole obligation and responsibility of the student to initiate a conversation or visit with the classroom teacher within one week of receiving a score and/or teacher feedback on the original assignment/activity. Once the relearning parameters have been established and agreed upon, any student failure to adhere to the newly established timeframe will cause an immediate forfeiture in the student’s ability to redo the assignment.

NOTE:

*This policy may NOT apply to dual credit, specific AP courses, or other advanced courses based on the criteria of the cooperating universities and program specifications. Also, this policy may not apply to classes that have production deadlines such as Newspaper, Yearbook, KPTV, Industrial Arts, etc. Summative assessments that are being used as a final measure of what students have learned may also not be eligible for a redo unless a specific department deems it appropriate and necessary.*