**PCHS Course Syllabus**

**Conceptual Physics**

**Teacher: M. Beverly, L. Hersey**

**Room: 30-B**

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| **Week** | **Chapter** | **Major Topics to be introduced** |
| **1** | **1** | The Nature of Science: Scientific Method, Lab Safety, Standards of Measurement, Graphing |
| **2** |  | The Nature of Science: Scientific Method, Lab Safety, Standards of Measurement, Graphing |
| **3** | **15,16,3** | The Nature of Science: Scientific Method, Lab Safety, Standards of Measurement, Graphing |
| **4** |  | Energy: Types of Energy, Thermal Energy, Solids, Liquids and Gases |
| **5** | **11** | Energy: Types of Energy, Thermal Energy, Solids, Liquids and Gases |
| **6** |  | Energy: Types of Energy, Thermal Energy, Solids, Liquids and Gases |
| **7** |  | Motion and Speed: Describing Motion, Speed and Acceleration |
| **8** | **12** | Motion and Speed: Describing Motion, Speed and Acceleration |
| **9** |  | Motion and Speed: Describing Motion, Speed and Acceleration |
| **10** | **14** | Motion and Speed: Describing Motion, Speed and Acceleration |
| **11** |  | Forces: Newton’s Laws, Gravity, Weight, Terminal Velocity |
| **12** |  | Forces: Newton’s Laws, Gravity, Weight, Terminal Velocity |
| **13** | **17** | Forces: Newton’s Laws, Gravity, Weight, Terminal Velocity |
| **14** | **18** | Forces: Newton’s Laws, Gravity, Weight, Terminal Velocity |
| **15** |  | **Semester Final** |
| **2nd Semester**  **19** | **Chapter**  **20** | Work and Machines: Work, Using Machines, Simple Machines and Mechanical Advantage  **SIMPLE MACHINES PROJECTS!** |
| **20** | **20** | Work and Machines: Work, Using Machines, Simple Machines and Mechanical Advantage  **SIMPLE MACHINES PROJECTS!** |
| **21** | **21** | Work and Machines: Work, Using Machines, Simple Machines and Mechanical Advantage  **SIMPLE MACHINES PROJECTS!** |
| **22** | **2,3** | Work and Machines: Work, Using Machines, Simple Machines and Mechanical Advantage  **SIMPLE MACHINES PROJECTS!** |
| **23** |  | Work and Machines: Work, Using Machines, Simple Machines and Mechanical Advantage  **SIMPLE MACHINES PROJECTS!** |
| **24** |  | Waves, Sound |
| **25** |  | Waves, Sound |
| **26** |  | Electromagnetic Waves, Light |
| **27** |  | Electromagnetic Waves, Light |
| **28** |  | Electricity: Electric Charge, Electric Current, Electrical Energy and Circuits |
| **29** |  | Electricity: Electric Charge, Electric Current, Electrical Energy and Circuits |
| **30** |  | Magnetism and Its Uses: Magnetism, Electricity and Magnetism, and Producing Electric Current |
| **31** |  | Magnetism and Its Uses: Magnetism, Electricity and Magnetism, and Producing Electric Current |
| **32** |  | Magnetism and Its Uses: Magnetism, Electricity and Magnetism, and Producing Electric Current |
| **33** |  | Classification of Matter, Solutions and Gas Laws |
| **34** |  | Classification of Matter, Solutions and Gas Laws |
| **35** |  | **Review and Posttest** |
| **36** |  | **Review and Final Exams** |

**Teacher Planning Period** \_2nd Block**\_ Planning Time\_\_\_**10 am-11:30 am**\_\_Teacher Email** mandybeverly@pierce.k12.ga.us

**I will be available for students to receive extra help on the following days and times \_\_\_\_**By Appointment**\_\_\_.**

* ALL STUDENTS ARE REQUIRED TO PASS A **LAB SAFETY EXAM** WITH AN **80 OR BETTER** TO PARTICIPATE IN REQUIRED LABS.
* ALL STUDENTS MUST TURN IN A **LAB SAFETY CONTRACT SIGNED** BY PARENT AND STUDENT TO PARTICIPATE IN REQUIRED LABS.

**GRADING PROCEDURES:**

1st 9 weeks

2nd 9 weeks (1st sem. Post test)

3rd 9 weeks

4th 9 weeks\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

75 % 9 weeks average

25% Final Exam (end of course)

\*For yearlong courses, first semester Post Test will count as a test grade in the 2nd 9 weeks grade.

**COURSE GRADING POLICY FOR BREAKDOWN OF CLASS WORK:**

Daily work/Homework: 15%

Labs/Quizzes: 25% 20%

Tests/ Projects: 60%

**Total:** 100%

**EXAM EXEMPTIONS:**

All students will be required to take the Physical Science posttest.

Students may exempt the semester **final exam** for a course in the following way:

* Students must have an average of 70 or above, miss no more than 2 days per semester, AND pass the Physical Science posttest.

**MAJOR PROJECTS OR ASSIGNMENTS AND DUE DATES:**  As Assigned.

**SOME BASIC CLASSROOM RULES:**

1. Be on time to class.
2. Be in your seat when the bell rings and begin warm-up immediately.
3. Listen when others are speaking.
4. Respect yourself and others.
5. Follow directions the first time they are given.
6. No food or drink is allowed in class. Water is OK.

THE TEACHER RESERVES THE RIGHT TO MAKE CHANGES IN CONTENT, GRADING PROCEDURES OR CLASS RULES AS NECESSARY.

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**Physical Science Course Description**

The Physical Science curriculum is designed to continue student investigations of the physical sciences that begun in grades K-8 and provide students the necessary skills to have a richer knowledge base in physical science. This course is designed as a survey course of chemistry and physics. This curriculum includes the more abstract concepts such as conceptualization of the structure of atoms, motion and forces and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and fieldwork using the processes of inquiry.

**I have received and read the syllabus and classroom rules. I understand them and will abide by the classroom rules in Mrs. Beverly’s class.**

**Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**