

Physical World Concepts (PWC) is a class that introduces the basic concepts of Physics. We will cover a wide variety of topics and will complete many activities in our Physics Lab. This class will prepare you well for high school sciences (Physics, Biology, and Chemistry).

Materials Needed

- Notebook with many pages in it to serve as your Science Notebook
- Something to write on
- Something to do math on (i.e. calculator)

I don't mind iPads or laptops...as long as they are being used for a productive school reason...If you are using these devices for non-school activities, they will be taken up and you will get them back 10 days later.

We do have calculators that students can use in class...but it's really best if you have your own so you can get used to it at home and school.

Behavior

There is one class rule - don't act like a fool. A high school student has enough experience to understand how to act in a class. Behavior that detracts from other students learning will not be tolerated.

If a student approaches a class with a good attitude and tries to get along with what's going on, they will enjoy the class a whole lot more. If a student decides that they want to act out, they make the class miserable for everyone...what's the point in that? Don't act like a fool!

Textbook

We do not use the textbook in class - it is designed to be used at home as an extra resource to help study and to help with chapter work if you are having trouble with something. I suggest students use the online version of the textbook (it's easier to navigate and you don't have to worry about losing it!). It can be found on the class' ManageBac page and also can be found at <http://bit.ly/pwcbook> (don't add or subtract anything from that address, it can be sensitive!). If a student doesn't want to use online version, they may check out a hard copy from me like normal.

How to best contact me

The best way to contact me is with email (raynolds_chris@hcde.org). If you would rather talk on the phone or in person, email first and we can set up a time. Don't try to call during school...I do not answer the phone for non-school phone numbers during the school day (since I'm busy teaching).

Schedule of Topics

Fall Semester

- Mechanics (*1st Quarter*)
- Waves (*2nd Quarter*)

Spring Semester

- Electricity and Magnetism (*3rd Quarter*)
- Nuclear Physics (*4th Quarter*)
- Individual Project (*Final Exam*)

How the Class Works

The class is divided into 4 quarters, covering the areas of Physics found in the TN State Standards for Physical World Concepts. The content covered is teacher-developed, but student-driven. In order to develop the critical thinking and information gathering skills crucial for 21st Century jobs, students will work to develop an understanding on the content and will express their learning in certain areas...

The grading is broken into two categories of equal weight.

50% - Major Assessments	50% - Daily Classwork
<p>During each quarter, each student will be assessed with multiple Major Assessments. These Assessments fall into two categories...</p> <p>1) MYP Assessments Students will be required to pick (at least) two MYP Assessments to complete for each quarter. For science, these Assessments fall into four categories:</p> <ul style="list-style-type: none">A: Knowing and Understanding <i>(usually a test)</i>B: Inquiring and Designing <i>(designing an experiment)</i>C: Processing and Evaluating <i>(dealing with data and conclusion from experiment – usually done with B)</i>D: Reflecting on the Impacts of Science <i>(communicating about science)</i> <p>Students will be expected to complete at least one of each Assessments during each Semester.</p> <p>2) Presentation Day At the conclusion of each unit, students will share what they have done and learned with the other students. Evidence of learning and experimentation will be required to be shown. A review of the student's Science Notebook will be a part of this grade.</p>	<p>In order to achieve mastery in the content, students will be required to spend many of their class periods working with the resources provided to help them learn the material. These classes will feature one group working on a lab, while another group does research for a paper or to prepare for the Unit Test.</p> <p>At the completion of each class period, students will record what they have completed during that day on an online form. This form is found at:</p> <p style="text-align: center;">http://bit.ly/pwcclassreport</p> <p>These daily reports will count as their Daily Classwork grade.</p> <p>In addition to the online reports, students will record all findings, research, etc... in their Science Notebook.</p>

All work is required to be turned in by the Presentation Day for the particular unit which can be found on ManageBac.

Testing

This class does not have any state-created EOC tests.

Where can I get...I forgot...You never gave me...I was absent for...

If you don't have something that you should due to any reason, look on ManageBac. All information given in class is uploaded to ManageBac. If you have trouble accessing the service, let me know. If I've forgotten to add something, let me know and I'll fix it.