

CONCEPTUAL PHYSICS

Teachers: Mr. Talboo, Mrs. Ingram

School year: 2014-2015

Emails:

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Course Information:

As a physics student you must be willing to be an analytical and theoretical thinker and be willing to investigate theories through hands-on activities. My goal is to help you understand basic physics principles through the use of laboratory experiments, real-life applications and computer software and simulations. Although there is currently no physics SOL test, you are, as a student, expected to put forth as much effort as you would for an SOL course. Topics discussed in this course include mechanics, fluids, waves and optics, electricity and magnetism, the special theory of relativity and nuclear physics.



Materials:

Text: **Conceptual Physics** by Paul Hewitt

Calculator: Any calculator with trigonometric functions (*TI-83 or equivalent preferred*)

- Three ring binder (2.5") with sufficient paper
- Paper
- Pencils
- Metric Ruler

Grading:

Your grade will consist of various assignments that are broken down into the following categories:

Tests	40%
Quizzes	20%
Labs and Activities	25%
Graded Practice	15%

The Loudoun County grading scale for the **2014-2015** school year is as follows:

98-100	A+	93-97	A	92-90	A-
87-89	B+	83-86	B	80-82	B-
77-79	C+	73-76	C	70-72	C-
67-69	D+	63-66	D	60-62	D-
0-59	F				

Note Taking:

In order to be successful in this course, you will need to take notes effectively and listen attentively. To aid you in taking notes, I will provide an outline for each chapter and guide you through the note-taking process. It will be your responsibility to complete the outline and record any additional information and/or questions you feel are important to the lesson. You are expected to use these notes as a study guide for assessments.

Graded Practice:

Practice problems are necessary to reinforce the material covered in class. Practice problems will be assigned after each section of material and **will be completed in your binder**. It is highly recommended that you complete these assignments the night they are assigned.

Laboratory Experiments:

Experiments and activities will be conducted to reinforce the material taught in class. You are expected to work safely according to the laboratory guidelines, to handle laboratory equipment respectfully, to take each lab seriously and to use your time wisely and productively. Lab assessments will be given after each formal lab. ***NOTE: If the Laboratory Safety Contract has not been handed in, a student will not be permitted to participate in any lab activity, and earn a zero for each lab until it has been handed in.***

Quizzes:

Quizzes should be expected regularly. Quizzes **do not** have to be announced and may cover any material taught up through the previous day. Quizzes will be worth **50** points.

Tests:

Tests will be given at the end of each chapter unless otherwise stated. Tests will be worth **100 points** each. Tests will consist of a mixture of problems that are both quantitative and qualitative in nature. Tests will be divided into two sections. The first section will be a non-calculator multiple choice, while the second will be short answer questions in which students may use a calculator.

Class Preparation:

Participation is expected from each and every student. A calculator, pencil and other necessary materials need to be brought to class every day. These items are the sole responsibility of the student. ***The teacher will not provide a calculator, pencil or any other item that the student is expected to bring to class.***

Make-Ups/Absences:

It is **your responsibility** to complete all assignments missed due to absences. *This includes learning the material that was presented in class on your own! It is not the responsibility of the teacher to re-teach material that was missed during an absence.* If you are absent the day an assignment is due, it must be turned in on the day that you return to class. ***10% of the total score will be deducted for each school day that an assignment is turned in late.*** Make-up tests or quizzes must be completed by the next class period. Students who do not complete the test by the next class will take the test during class, and be responsible for making up the work missed in class.

Restroom Policy:

Students have 6 minutes in between classes to take care of any personal business such as visiting the restroom. **DO NOT** ask to go to the restroom during class hours unless it is an absolute emergency! You will be allowed 3 emergency restroom visits per semester. ***In addition, permission will only be granted to those students having a properly completed pass in a 2014-2015 Stone Bridge Agenda.***

Parent Acknowledgement Form

Please Read!

PARENTS: Please read, sign and return this form to school with your child by **Monday, September 8th** or **Tuesday, September 9th**. Feel free to call or email if you have questions at any time throughout the year. I can be contacted at 571-252-2200 or by emailing me at: AJ.Talboo@LCPS.org

- I have read the course guidelines and have discussed them with my child.
- I understand that a calculator is needed for this course and that *the teacher will not provide one*.
- I understand that homework problems are highly recommended.
- I understand that the *Laboratory Safety Contract* must be signed and returned before my child can participate in any lab activity and I understand that my child will receive a zero for each lab until it has been handed in.
- I understand that quiz and test make-ups are completed during study hall, before school or at a pre-arranged time and that they must be completed *within one week* in order to get full credit.
- I understand that my child is solely responsible for completing all assignments missed during his/her absence.

Name of child (PRINT)

Name of parent / guardian (PRINT)

Name of parent / guardian (SIGNATURE)

Parent / guardian email address