Physics in the World Paper

The purpose of this paper is to analyze the physics in a topic of your interest. Pick any topic you want and write about it. For some of you this is going to be an easy assignment, for others it may be more tricky. The key is that when you are writing this paper; don't just put words down to put words down. Although length is part of the grade criteria, it is more important to connect all of your topics and be thorough with what you are writing. To achieve a good grade on this project you need to explain everything fully.

Pick any physical topic and discusses it with your teacher. After the topic is approved, research it and write a minimum of a 1250 word paper. The word count should not include the heading or the citation. The ground rules of this project are that your paper needs to be a complete study of the topic. Incorporate all topics and equations that we have covered that apply to your topic to strengthen your paper. Add to the paper any new equations or theories. You may cite as many resources as you want, but do not plagiarize. Write your own paper. Using the Journals / News page under the links menu on croomphysics.com can help you find research and maybe even a topic.

After your paper has been written create a project to demonstrate your further understanding of this topic. This project can be anything from a diagram, to physical model, to a lab you create. All computer based presentations must be digitally submitted on the pub drive by 2:20 the day before the assignment is due. This is so time is not wasted getting the presentations onto the computer during class. The grading rubric for this as well as your paper can be found on the back of this sheet. Use the back of this sheet as your cover page.

Will count as a test for the fourth quarter. It should demonstrate everything you learned this year about writing a good physics paper including how to right a good theory. This is not a lab report so you do not need to have specific sections, but charts, graphs, example problems, areas for future research, and a generally good scientific writing style will enhance your grade. Late Submission will constitute a zero. **Remember this is your final project. Your work should represent to the teacher all you have learned this year**. Do not hand in remedial work and expect to get a passing grade.

Good Luck,

Dr. Croom

PHYSICS REPORT GRADING RUBRIC

Name:			
Topic:	 	 	

For each of the criteria listed below, a point value between 1 and 5 will be assigned to your project. The paper/project will be weighted twice depending on which is the focus of the assignment. Total points possible are therefore 100 points.

- 5 points = Your product clearly meets this standard
- 4 points = Your product item is successful and indicates a serious effort to meet this standard
- 3 points = Your product indicates effort but little success in meeting this standard
- 2 points = Your product indicates little effort in attempting to meet this standard
- 1 point = Your product clearly does not meet this standard.

	Paper Standards	pt	ts		Project Presentation Standards	
1.	The topic chosen is explained and analyzed using a scientific writing style. An appropriate amount of detail is given to the subject and boundaries on the research are set.			7.	The presentation of the project is done effectively with a proper public speaking style. The student is prepared and can speak about the topic and answer questions from the class and from the teacher.	
2.	The information is accurate. Scientific laws are explained correctly. The reader can understand what is being presented.			8.	The product achieves the clear purpose of explaining the topics studied in the paper.	
3.	The product shows a clear connection between ideas. The topic is studied completely not leaving the reader with a series of questions.			9.	Imagination and creativity has been used to take advantage of the presenter's strengths to effectively convey a message.	
4.	Appropriate connections are made to concepts underlying the information presented. Real world applications are pointed out and the reader can see the importance of understanding the physics related to this topic.			10.	Appropriate approaches are used to present the information to the audience. A project, a power point presentation, and/or handouts is used.	
5.	A minimum of 5 reliable sources are used to gather the information for the product. At least 1 of these sources is a book other than your textbook and a second source is from published journal.			11.	The product reflects appropriate attention to detail. The audience isn't left with questions about the topic being presented.	
6.	Sources used are clearly indicated using a reference list and parenthetical documentation.			12.	The presentation is between 3:00 and 5:00 minutes unless previous permission is obtained.	
Organizational Standards			Grammar & Style Standards			
13.	The product presents ideas and details in an effective order.			17.	The item is free of grammatical and spelling errors.	
14.	The product is unified and coherent, with a clear structure.			18.	The writing is free of clichés, extreme technical jargon, mixed metaphors, and other stylistic pitfalls.	
	The paper and the presentation items were submitted to the teacher on time. (Note: You lose 10 points for every day it is late)			19.	The paper was submitted to the class Wiki Site Correctly	
17.	The paper is a minimum of 1250 words not including the heading and the bibliography.			20.	The paper was formatted on the wiki site with paragraphs and citations	
	Total Points Earned = = = = 25		Com	ments:		