




Physics Projects - An Overview


First Quarter Projects (Total = 140 points)

-  **Physics Toy Chest (40 points)** *Individual Project*
You will discuss the physics behind your favorite toy. You should include a sketch of the toy, how the toy is played and then the physics of the toy. Please see handout for details. Due date is set for approximately one week **before** the progress report due date. **The toy must be related to the topic that we are discussing during that nine weeks.**
Due date: **Monday, September 24, 2007**


-  **NAKED Egg Drop (100 points)** *Individual/Partner Project*
Due date: **Wednesday, October 10, 2007**
Drop date: **Thursday, October 11, 2007**
Report: **Wednesday, October 17, 2007**
Egg must survive being dropped from various heights including the classroom, the gym balcony and the third floor window. Rubric will be determined by the class.


Second Quarter Projects (Total = 200 points)


-  **Periodical Critique (75 points)** *Individual Project*
One periodical critique per grading period
Due date is set for two weeks **before** the close of the grading period
Friday, November 16, 2007

-  **Annual Firestone Bridge Contest (125 points)** *Partner Project- team of 3*
Building and Breaking Date: **Friday, December 21, 2007**
The winners of this competition will represent Firestone High School at the City's Engineering Competition held at the University of Akron.
Rubric will be determined by the class prior to the event


Third Quarter Projects (Total = 275 points)

-  **Periodical Critique (75 points)** *Individual Project*
One periodical critique per grading period
Due date is set for two weeks **before** the close of the grading period
Monday, January 28, 2008

-  **Cartesian Diver (75 points)** *Individual/Partner Project*
Due Date / Experiment Date: **Thursday, February 14, 2008**

-  **Mousetrap Car (125 points)** *Individual/Partner Project*
Due Date: **Thursday, March 6, 2008**
Race Day: **Friday, March 7, 2008**
Rubric will be determined by the class prior to the event

Fourth Quarter Projects (Total = 75 - 225 points)

-  **Periodical Critique (75 points)** *Individual Project*
One periodical critique per grading period
Due date is set for two weeks **before** the progress report due date
Wednesday, April 2, 2008

-  **Model Rockets (150 points) - TBA** *Individual/Partner Project*

-  **Alternative Assessment** for the **FINAL EXAM** – provided there are students taking the AP exam ;-)