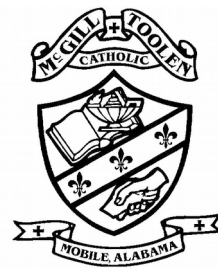


# The Final Physics Exam Study Guide

## McGill-Toolen Honors Physics



**General Comments:** Please manage your study over a period of days to prepare effectively. Disciplined distributed preparation directly impact exam performance. Appropriate preparation, sleep and health are all very important for optimal performance on the Physics exam. A good night's sleep is the most important single factor in preparation for maximum performance.  
**NO NOTES OR FORMULA SHEETS ARE ALLOWED DURING THE EXAM!**

### Exam Description:

- ☺ The **Multiple Choice** section (100 items) will require that you select the best answer available. It may require that you select the appropriate quantitative (number) answer, the correct algebraic representation or the formula needed for solving.
- ☺ The **Free Response** section will require that you correctly display the principle algorithm (formula), identify variables, and use draw motion maps, energy bar charts, atomic energy levels, ray line diagrams and wave representation .
- ☺ The **Analysis and Discussion** provides experimental description, procedures and data. You then discuss the data, determine a mathematical representation for the data and/or draw conclusions from lab data provided.

### How to Prepare for Exam Content:

- ☺ **Textbook Reading:** *Physics: A First Course* is can provide excellent review through reading. This exam will have items relating to the content of Chapters 1-10, 12-24 (every chapter except 11 which is actually chemistry!)
- ☺ **Worksheets, Notes & Labs:** Worksheets, labs, movie notes and lectures notes can help if they are well done. Most exam items are based on test items. QUALITY test analysis sheets are especially helpful.
- ☺ **Final Exam Preparation Program:** Review software "FinGame.exe" can be helpful or use You may obtain the free program from the Physbuzz website [www.physbuzz.org](http://www.physbuzz.org) (download) and play on your PC (XP or earlier)
- ☺ **Final Exam Online Practice:** Review online "FinGame Quiz" can be helpful in preparing for the exam! The quiz is found at the [www.physbuzz.org](http://www.physbuzz.org) website in the "Honors Physics Class".
- ☺ **Improve Past Assignment Grades!** Displaying reasoning and submitting a completed "FinGame Quiz" (or FinGame.exe ) can improve any past assignment grades and ALSO prepare you for the exam! **No improvements after May 25!**

## The Final Super Cipher Competition

- ☺ **The Final Super Cipher Competition** can have a significant impact the exam score! The 1st Place team in the competition earns 110 points for the Final Super Cipher, are considered Honors Physics Champions. First place winners add up to 10 points the exam score (99 is maximum unearned exam score). Second place adds 7 points to the exam score. Third place adds 5 points to the exam score.

### Important Events:

Friday May 16

Last day for Assignment Make up Work

Last Day for Assignment Improvements

Monday May 19

Final Super Cipher Competition

4<sup>th</sup> Quarter ends

Tuesday

May 20

Exam "1<sup>st</sup> & A"

Wednesday

May 21

Exam "B & C"

Thursday

May 22

Exam "D & E"

Friday

May 23

Exam "F"

**The will to win is not nearly as important as the preparation to win!**