

# Honors Physics

40.0810013 and 40.2810013

A.R. Johnson Magnet High School

Academic Year: 2024-2025

Teacher: Mr. Baker

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Web: <https://www.rcboe.org/Domain/19996>

Tutoring Dates: TBD or by Appt.

Remind Code: he7f78

Class Room: 808

Grade Level: 11th, 12th

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## Welcome Letter

Welcome students, I hope you are excited for a fun year in Physics! I am very excited to teach this class and I hope I can share my enthusiasm with you all this year. This will be a fast paced course, but we will have ample time to cover all the material, master the standards, and do fun labs!

## Course Description

The Honors Physics course is designed to continue the student investigations of the physical sciences that began in grades K-8, and provide students the necessary skills to be proficient in physics. These standards include more abstract concepts such as nuclear decay processes, interactions of matter and energy, velocity, acceleration, force, energy, momentum, properties and interactions of matter, electromagnetic and mechanical waves, and electricity, magnetism and their interactions. Students investigate physics concepts through experiences in laboratories and field work using the science and engineering practices of asking questions and defining problems, developing and using models, planning and carrying out investigations, analyzing and interpreting data, using mathematics and computational thinking, constructing explanations and designing solutions, engaging in argument from evidence, and obtaining, evaluating, and communicating information.

## Course Curricula

**Unit 1:** *Kinematics*

**Unit 2:** *Force and Motion*

**Unit 3:** *Energy and Momentum*

**Unit 4:** *Waves*

**Unit 5:** *Electricity and Magnetism*

**Unit 6:** *Modern and Nuclear Physics*

## Launchpad, Canvas, and Textbook

- **Launchpad** is our single sign on platform. All the apps/webtools that students will access throughout the school year, in all their courses, can be found here. You may also download the Classlink app to your device to access Launchpad from your phone or tablet.
- **Canvas**, our learning management system, can be found in each student's Launchpad. The courses they are registered for will be displayed on the Dashboard in Canvas. Click on each course to find announcements, assignments, and all online instruction. You may also download the Canvas app for parents and the Canvas app for students to your cell phone or tablet.
- **AP Classroom**, accessible through AP Central, will be your students primary destination for AP course content. They will be given instructions to register for the class section in person and access information will be available on Canvas.
- **McGraw Hill** will be your students destination for accessing their e-text as well as various assignments. Students will also be receiving a physical textbook.
- **Textbook.** Inspire Physics

## Required Materials

- RCSS District issued laptop or 1:1 Device (not phone)
- Blue or Black Pen and Pencils (Pens will be needed for Labs)
- Ti 84 CE graphing calculator (or better)
- 1" 3 Ring Binder and Binder index dividers (to help with organization)
- Filler college ruled lined paper and Filler graph paper
- Folder
- Laboratory Notebook. This can be a composition notebook.
- Ruler

## Grade Breakdown

High School student performance will be recorded and reported in all courses. Calculation of Final Grades will be determined by the cumulative semester average using the following criteria:

### Course Material and Mastery

- **Minor Assessments: 60%**
  - Quizzes
  - Labs
  - Activities
  - Problem Sets
- **Major Assessments: 40%**
  - Tests
  - Projects

## Disciplinary Actions

Students are expected to follow the code of conduct during instructional time. Lab safety violations will be an immediate admin referral. Lab supply rooms will be locked during instruction and only teacher/admin will be given access.

For level 1 offenses (which do not immediately involve administration or concerns for student safety):

- 1st offense – redirection and verbally warning
- 2nd offense – documented, redirection, parent contacted
- 3rd offense – documented, detention, parent contacted
- 4th offense – documented, detention, parent conference
- 5th offense – referral to the administration

## Late/Missing Assignments

Late work is defined as assignments that are submitted after the specified deadline. This does not apply to work submitted late due to absence from school. Students are expected to submit assignments on time. Multiple incidents of late work may result in teacher-student-parent conferences to examine and correct the student's work habits through an academic contract. Scores may be reduced by 5% per school day for a 25% maximum reduction (five school days). Late work submitted after the fifth school day will only be accepted at the teacher's discretion.

## Relearn/Reassess

Students who perform below 70% on a major assignment will be given the opportunity to relearn and reassess to show improvement in their mastery of the standard. Students will submit a Relearning Plan as part of this process. This plan should include:

- Analysis of their errors or misconceptions on the previous major assignment.
- Complete assignments provided to relearn the content for mastery. Students may also attend a tutoring session.
- Complete and turn in any missing assignments.
- Commit to date(s) and time(s) to redo the assignment or retake the assessment.
- Share the plan with their parent and teacher for approval and signatures.

Upon satisfactory completion of the plan, as determined by the teacher, student should be given a minimum of one opportunity to be reassessed. Teachers should have discretion to determine if R&R opportunities will be given for any minor assessment.

## **Tutoring**

Tutoring is available as needed by appointment only. Please contact teacher if you are interested.

## **Disclaimer**

The teacher reserves the right to edit this document at any time and will promptly notify students and parents if there are any changes related to disciplinary action or general course expectations.