



# ESSEX H.S. COURSE EXPECTATIONS

## COURSE TITLE AND NUMBER: **Physics 200**

**TEACHER NAME:** Jonathan Stapleton

**TEACHER EMAIL ADDRESS:** jstapleton@ewsd.org

**TEACHER PHONE EXTENSION:** 7093

**TIMES AVAILABLE TO MEET:** A1/2, A3/4, B3/4– in the Science Office (B102). Flex Block – C211.  
A days before school in the Science Office (B102). B days before school in C115.

### **COURSE DESCRIPTION:**

This course covers topics of classical physics. Newtonian mechanics (vector-based), gravitation, conservation of energy, and momentum are covered in the first semester. The second semester covers rotational motion, electrostatics, DC circuits, waves, sound, light, and optics. Demonstrations and videos are used to supplement the lectures and to provide historical background for the laws of physics. Computer simulations, computerized data collection and analysis, and traditional hands-on lab activities are used throughout the course.

### **COURSE PROFICIENCIES:**

**Physics 200 is based on the following course proficiencies.** Through scientific processes and practices, students will explore and understand...

- Kinematics in 1 and 2 Dimensions
- Forces and Newton's Laws
- Circular Motion and Gravitation
- Work and Energy
- Linear Momentum and Collisions
- Statics, Torque, and Angular Momentum
- Electric Charge and Electric Fields
- Electrical Current and Circuits
- Waves and Sound
- Light and Optics

**GRADING, ASSESSMENT, AND REPORTING:**

For 2018-2019, academic grades will be reported separately from learning habits. At EHS, we believe:

- Academic grades should reflect achievement of course proficiencies.
- Learning habits are necessary for academic success and should be explicitly reported.

**ACADEMIC ACHIEVEMENT:**

Academic grades for all courses are reported numerically 60-100%, Below 60, or “Not Met” in PowerSchool.

- Tests, Quizzes, and other Formal Assessments: at least 80% of quarter grade
- Learning Experiences (Lab/Class Activities and Homework): up to 20% of quarter grade

**TRANSFERABLE SKILLS AND LEARNING HABITS:**

For 2018-19, one course specific transferable skill and the two school wide learning habits will be scored and reported separately in PowerSchool. For this course, the transferrable skill will be *Creative and Practical Problem Solving*. The school wide learning habits are *Work Completion* and *Engagement in Learning*.

**CLASS RESOURCES:**

- [www.mrstapleton.com](http://www.mrstapleton.com)
- Electronic text website: Search “[openstax physics](#)”
- [misterstapleton](#) YouTube Channel

**STUDENT RESPONSIBILITIES AND LEARNING EXPECTATIONS:**

Students and parents are responsible for knowing and adhering to the EWSD Handbook and the EHS Handbook Addendum that describe school policies and procedures, academic expectations, and behavioral expectations. This includes the new electronics/cell phone policy (with some exceptions for lab use). In addition...

- A positive learning environment is similar to the free and open society that we live in. We all enjoy its benefits, yet we must all work to preserve it. To preserve a positive learning environment it is essential that everyone show respect and sensitivity.
- Laboratory equipment must be handled with care. Please handle the equipment carefully and let me know if any materials are damaged.
- Before you leave class each day, help to return the classroom to a clean and organized state.

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I have read and understand the expectations for this course [Physics 200 -- Stapleton].

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Student Name (Print)

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Student Signature/Date

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Parent/Guardian Name (Print)

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Parent/Guardian Signature/Date