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| **Physics Course Syllabus**  ***School Year 2020-2021***  Teacher: **Hazel Yater**  Room #: X108  E-mail address: hazel.yater@fortbendisd.com  Phone #: 409-242-0806  Conference Period: 4th Period  Tutorials: 2:30 – 4:00 pm Th or by appointment (Online) | Image result for thurgood marshall high school logo |

**Course Overview**

This course is a rigorous analytical study of the central concepts of physics requiring mathematical and problem solving skills. It explores fundamental physics concepts on motion, forces, work, energy, momentum, circuits, electromagnetism, waves, and optics.

**Primary Textbook:** **Textbook:** Physics. James Walker, 2014, Pearson Education, Inc.

**Digital Learning System/Online Textbook:** Schoology

**Websites:** Fortbendisd.com; https://fortbendisd.schoology.com

https://phet.colorado.edu/en/simulations/category/new; <https://www.explorelearning.com/>

Pearson.com

**Course Outline**

Course content outline relates to the chapters in the Physics textbook.

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| **First Semester**  Unit 1 – Kinematics  Unit 2 – Projectile Motion and 2-Dimensional Motion  Unit 3 – Newton’s Laws of Motion  Unit 4 - Circular and Rotational Motion  Unit 5 – Work, Power, Energy, and Thermodynamics | **Second Semester**  Unit 6 – Momentum and Impulse  Unit 7 – Electrostatics  Unit 8 – Electric Circuits  Unit 9 – Electromagnestism  Unit 10 - Waves and Optics  Unit 11 – Quantum, Atomic, and Nuclear Physics |

**Required Websites**

**Students must join these to join live classes and access class materials. You will be required to use your district email address and password.**

[**Microsoft Teams**](#_top)

Download Microsoft Teams app on your device and enable Microsoft Teams notifications. To join live classes, use the access code below

3rd Period lg9lpm7 5th Period iuek53t 6th Period r1cbkc5 7th Period 3nbfh7l

**Schoology**

To access course content materials and OneNote class notebook use the access code below

3rd Period FW8R-R2NK-Q7Q9P     5th Period MRVC-C5WD-2V5VC

6th Period D835-FNRP-9QXB 7th Period 6GB9-KH4G-TWQPJ

**Digital Notebook on OneNote**

Students are required to use a digital notebook on OneNote in their schoology platform. It’s paperless and students can work directly in the file anywhere to record information and questions that demonstrate their understanding of physics concepts including the raw data for completed lab reports. This digital notebook will be graded every three weeks.

**Lab and Classwork**

Throughout the course, students are required to engage in a variety of lab activities and projects that will enable them to connect the concepts learned in class to real world applications. Both projects and labs will generally be a group activity and a team lab report/project will be submitted for grading. Projects count the same as test and will be done during class period. An after-school lab is available for any student who missed a lab activity.

**Assignments and Homework**

The online learning management system Schoology is used as a means of assigning and grading practice problems, homework, quizzes and tests. Students will work through a combination of chapter questions from the Mastering Physics of Pearson, as well as teacher-made assigned practice problems. During each unit, the problems assigned are mostly specific to the unit topic but may also include review problems.

**Tutoring**

Extra tutoring is available to students struggling with concepts presented in this class. It is the student’s responsibility to come get the help that they need. A schedule of my availability will be posted but students must contact me in advance to make sure that I am available for a specific afternoon. **Tutorial time online every Thursday from 2:30 p.m. – 4:00 p.m. or by appointment.** Anyone who need extra help, must let me know as soon as possible.

**Warm-up/Bellringer**

Everyday there will be a warm-up assignment on the board/screen. Students are expected to begin working on this assignment and will be given two (3) minutes after the tardy bell to finish the bellringer before class discussion. If absent, student should see the teacher for any missed work and borrow the notes and bellringer from a classmate.

**Assessment**

Students take one major test every nine weeks and approximately two units are covered on each test. Comprehensive final exams (semester exam) will be given each semester. Tests can be retaken within three days of receiving a failing grade, but the student must do so in tutorials. The teacher reserves the right to administer a different make-up test or exam. The maximum score that may be earned on a retest is 75 percent. Quizzes may be given and may be unannounced. Projects are also included as a form of assessment.

**Grading Scale**

Student’s grade will be determined on the following scale:

50% Daily Grades

50% Major Grades

General guidelines for report card letter grades are:

90 – 100 A

80 – 89 B

75 – 79 C

70 – 74 D

69 & Below F (not passing)

I Incomplete

NG No grade

There may be some limited extra credit opportunities offered throughout the year.

**Deadline and Absences**

Homework, classwork and projects should be turned in on the due date to receive full credit. Work turned in the next meeting day after the due date will receive 75 maximum credit. Students are responsible for any missed assignment due to absences (e.g. UIL trips) and to make it up within **three days** of return to class. Failure to meet the deadline may result in a lower grade. All labs missed must be completed after school within **one week** of the absence. The teacher reserves the right to give an alternate make-up work or assignment.

**Academic Integrity**

Teachers expects from its students a high level of responsibility and academic honesty. It is imperative that a student demonstrate a high standard of honor in his or her scholastic work. If a student is caught cheating or using his/her cellphone during a test/exam, the test/exam will be void and the student will face the consequences of academic dishonesty.

**Expectations**

Students are expected to:

1. *Be on time to class.*
2. *Be prepared with materials and assigned work.*
3. *Participate in class discussions and laboratory investigations.*
4. *Follow all laboratory procedures and safety rules/guidelines.*
5. *Put away personal electronic devices otherwise it will be confiscated according to school policy if used inappropriately (ex. gaming, social networking, messaging, email, recording, etc.)*

*6. While the teacher is actively teaching and the Chromebook is being used, all Chromebooks are to be placed flat on the student desk. Student Chromebook screens are always to be visible to the teacher.*

*7. Students are not allowed to record AT ANY TIME audio, photos, or videos of other students or staff without their explicit permission.*

*8. Treat themselves, their classmates, and the teachers with respect at all times.*

*9. Seek appropriate help or clarification when needed. Students are expected to demonstrate ownership of their learning and success in this class*

*10. Adhere to all guidelines, behaviors, and conditions as stated in the student handbook*

**Required Materials:**

Graphing calculator

Charged Chromebook

Graphing paper

Colored pencils

Pencils or pens

Ruler and protractor

Glue stick and scissor

**Hazel Yater**

*Physics Lead Teacher*

Thurgood Marshall High School

[hazel.yater@fortbendisd.com](mailto:hazel.yater@fortbendisd.com)

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August \_\_\_\_, 2020

**For the Student,**

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(print student’s name) have read the course syllabus and expectations for Physics for the 2020-2021 school year. I fully recognize that I will be held accountable to these expectations and I understand the consequences for my actions.

I will send out reminders of due dates and upcoming tests/projects. If you would like to be on this list, please make sure you sign below. Thanks!

Student’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student e-mail and cellphone # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**For the Parent,**

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(print parent’s/guardian’s name), have reviewed the course syllabus with my son/daughter, and fully understand what is required in order for my son/daughter to pass the Physics course.

Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian e-mail and cellphone # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_