2019-2020 Principles of Technology

Ms. Robin Leverett

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Tutoring: Tuesday 7:30-8:00 am and 3:30-4:00 pm

Course Description:

In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include, laws of motion; changes with in physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior off waves; and atomic, nuclear, and quantum framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical-thinking skills.

Course Content

1st 9 weeks	2nd 9 weeks	3rd Nine weeks	4th 9 weeks
Processes of Physics Investigations	Unit 3: Two Dimensional Motion *TEKS: P4.C*	Unit 6: Conservation of Momentum *TEKS: P.6C, P.6D*	Unit 9:Electrical and Magnetic Forces and Fields *TEKS: P.5A, P.5C, P.5D*
Unit 1: Kinematics in One Dimension and Graphing Motion *TEKS: P.4A, P.4B*	Unit 4: Universal Gravitation *TEKS: P.5A, P.5B*	Unit 7: Thermodynamics *TEKS: P.6E*	Unit 10: Current Electricity *TEKS: P.5E, P.5F*
Unit 2: Newton's Laws of Motion *TEKS:P.4D*	Unit 5: Conservation of Energy *TEKS: P.6A, P.6B, P.6C, P.6D*	Unit 8: Waves *TEKS:P.7A, P.7B, P.7C, P.7D, P.7E*	Unit 11: Atomic, Nuclear, and Quantum Physics *TEKS: P.8A, P.8B, P.8C, P.8D*

Course Goals

Learner will….

- ✓ know and apply the laws governing motion in a variety of situations.
- ✓ Know the nature of forces in the physical world.
- ✓ Know that changes occur within a physical system and applies the laws of conservation of energy and momentum.
- ✓ Know the characteristics and behavior of waves.
- ✓ Know simple examples of atomic, nuclear, and quantum phenomena.

Grading Policy

- 25%- Daily grades will include classwork, homework, quizzes class participation.
- 50%- Major Grades include test, projects, and lab practicals.
- 25%-Laboratory work

Classroom Expectations

- Do your best
2. Follow all instructions
3. Respect others and their property
4. Be seated and quiet before the bell.
5. Have needed supplies
6. Cell phone use is prohibited unless authorized by the teacher.

Homework- Students are to spend 1-2 hours each week outside of class, the form of reading, studying, and/or completion of class work.

Classwork- There will be a weekly quiz over the content covered that week.

Tests- There will be at least two tests each 9 weeks. These will factor as major grades.

Labs/Activities-Students are required to keep a bound laboratory notebook that is organized and neat. *These will be graded as daily work.* Labs are to be entered in date of completion order and an index is to be kept. For at least 40% of the instructional time, the student will conduct laboratory and field investigations using sage, environmentally appropriate and ethical procedures.

Make Up Work-

- Daily and Lab Assignments-Students have one week to attend tutoring and turn in missed assignments. Lab work will be made up during tutorial times.
- Major Tests: If you missed the day of the test, *you must take the test the next class you attend.*

Test Retakes-Students are given a chance to retake a test to prove mastery of content. Any test retake must be completed within one week of test results during tutorials. Students will take a different version of the test.

Communication-

Remind 101-Text @levphys19 to 81010

Google Classroom-codes are posted in the classroom

Required Materials:

Black pens

Pencils

Red pens

Colored pencils

Composition notebook

1" binder

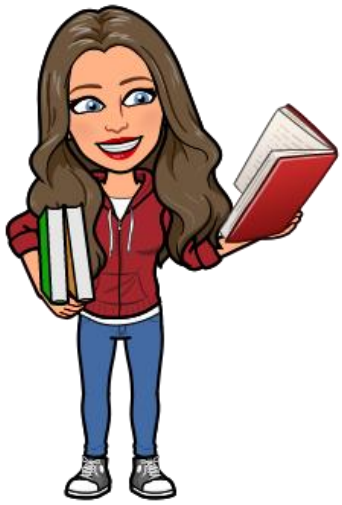
Sticky Notes

6 Glue sticks

Graphing pad

Tentative Test Schedule

Unit 1: Kinematics in One Dimension / Graphing Motion	September 20th
Unit 2: Newton's Laws of Motion	October 11th
Unit 3: Two Dimensional Motion	October 25th
Unit 4: Universal Gravitation	November 9th
Unit 5: Conservation of Energy	November 22nd
Unit 6: of Momentum	January 22nd
Unit 7: Thermodynamics	January 24th
Unit 8: Waves	February 28th
Unit 9: Electrical and magnetic Forces	March 24th
Unit 10: Current Electricity	April 9th
Unit 11: Atomic, Nuclear, and Quantum Physics	April 23



Please return this section to Ms. Leverett. Retain the syllabus in the front of your binder for future reference.

I have read and understand the information in the syllabus for Physics.

Classperiod: _____

_____ _____

Student signature Date

_____ _____

Parent Signature Date