2019-2020 Integrated Physics and Chemistry

Ms. Robin Leverett

robin.leverett@tiogaisd.net

940-202-2536 ext: 212

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

Course Description:

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

Course Content

1st 9 weeks	2nd 9 weeks	3rd Nine weeks	4th 9 weeks
Processes for Scientific Investigations *TEKS: I.4A, I.4B*	Unit 4: Thermal Energy *TEKS: I.5D, I.5E*	Unit 8: Properties of Matter *TEKS: I.6A, I.6B, I.6C I.7A*	Unit 10: Nuclear Reactions *TEKS: I.7E*
Unit 1: Position, Speed, Acceleration TEKS: I.4C, I.4D, I4.D, I.4E, *I.4F, I.4G*	Unit 5: Waves *TEKS: I.5G*	Unit 9: Elements and the Periodic Table *TEKS: I.6D*	Unit 11: Solutions *TEKS: I.6E, I.6F*
Unit 3: Potential and Kinetic Energy *I.5A, I.5B, I.5D*	Unit 6: Electricity *TEKS: I.5.C, I.5F*		Unit 12: Chemical Reactions *TEKS: I.7B, I.7C, I.7D, I.7F*
	Unit 7: Energy Resources *TEKS: I.5H, I.5I*		

Course Goals

The learner will….

- ✓ Know concepts of force and motion evident in everyday life.
- ✓ Recognize multiple forms of energy and knows the impact of energy transfer and energy conservation in everyday life.
- ✓ Know that relationships exist between the structure and properties of matter.
- ✓ Knows that changes in matter affect everyday life.

Grading Policy

- 25%- Daily grades will include classwork, homework, quizzes class participation.
- 50%- Major Grades include test, projects, and labs practical.
- 25%-Laboratory work
- Semester final is 10% of semester grade.

Classroom Expectations

1. 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 each day in class
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 and binder 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. The binder will be used for work books for each unit. 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.

Consequences-

1st Offense-Verbal Warning

2nd Offense-conference with student

3rd Offense- detention scheduled with teacher and parents notified

4th Offense-office referral

Communication-

The best way to reach me is *through email*. I check it throughout the day and will respond as soon as possible.

Remind 101- text @levipc19 to 81010

Google Classroom-

Required Materials:

Black pens

Pencils

Red pens

Colored pencils (stays in classroom)

Composition notebook (spiral or bound)

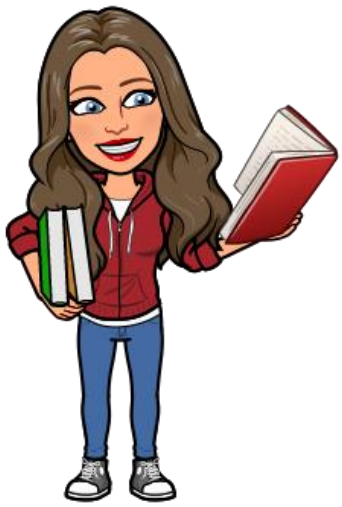
1" binder for this class only

Set of Sticky Notes (4-5 these will stay in classroom)

6 Glue sticks (stays in classroom)

Tentative Test Schedule

Unit 1: Position, Speed, and Acceleration	September 6th
Unit 2: Forces and Momentum	September 24th
Unit 3: Potential and Kinetic Energy	October 2nd
Unit 4: Thermal Energy	October 18th
Unit 5: Waves	November 6th
Unit 6: Electricity	November 22nd
Unit 7: Energy Resources	December 6th
Unit 8: Properties of Matter	January 31st
Unit 9: Elements and the Periodic Table	February 28th
Unit 10: Nuclear Reactions	March 6th
Unit 11: Solutions	March 27th
Unit 12: Chemical Reactions	April 29th



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 Integrated Physics and Chemistry.

Class period: _____

_____ _____

Student signature Date

_____ _____

Parent Signature Date