

South Gibson County High School
Physical Science Fall 2018

Instructor Contact Information:

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Course Description: Physical Science is a study of the basic concepts addressed in Chemistry and Physics. The Chemistry aspects of the course will address atomic structure, the Periodic Table of Elements, chemical properties, chemical equations and reactions. Topics of study in the field of Physics will include Newton's Laws of Motion and calculations for measuring motion and energy. This course includes mathematics and solving equations.

Supplies and Laboratory Fees:

Notebook, pencils, calculator

A laboratory fee of \$10 is collected for use of lab materials.

Assignments and Grading Scale:

- Informal Assessments: (lab assignments, quizzes, etc. - 20% of grade) Paired and group activities, laboratory experiments, tactical activities, and quizzes. These assignments reflect mastery in learning and should reflect the student's understanding of individual concepts.
- Formal Assessments (evaluations/tests/ major projects- 80% of grade) Comprehensive, objective, and analytical evaluations based on the TN Curriculum of Standards for the course. **Progressive grading policies will be implemented so that scores may improve with evidence of mastery on subsequent assessments.**
- **Make-up work:** Make-up work must be completed within 5 school days in order to receive credit. If students miss a formal or informal assessment they should be prepared to take it upon their return.

Class Participation:

Students are encouraged to participate in:

Classroom discussion/input/dialogue; Small group activities; Partner Assignments
Preparation for class by having all materials and assignments; On task behaviors;
Compliance and respect for class norms and procedures

Classroom Expectations:

I expect my students to:

- *follow all school and district policies (including policies regarding technology and outside food/drink)*
- *be respectful of the teacher, themselves, and others at all times; and follow common rules of courtesy.*
- *be alert, prepared, and ready to participate in class. This includes having all materials, books, and assignments in class every day. Anyone entering the classroom after the bell rings will be counted tardy.*
- *be quiet and respectful when visitors are present, announcements are being made, or instructions are being given.*
- *follow all safety contract policies (Contract will be addressed prior to lab assignments)*
- *be responsible for your actions, schoolwork, and any make-up assignments, labs, quizzes, or tests missed due to absences.*

Assignment/Assessment Expectations:

- South Gibson County High School strives to be a training ground for college and career readiness. Therefore, all students are expected to complete all assignments that support the learning of the state standards and complete those assignments to an acceptable level of mastery and in a timely manner.
- In the event that a student does not complete assignments or projects on time, the grade will be reduced according to the date turned in.
- Students are responsible for earning their grades. However, should a student continually refuse to make reasonable efforts to complete the requirements for earning credit in the course, failure of a course is a possibility after all other measures to be successful have been exhausted.

Academic Support:

- **Peer tutors**
- **Intermission-** academic support available to all students during the school day
- **Compass Odyssey-** a technology-based software program that our school system provides for enhanced learning. Odyssey assigns an individual learning path in order to provide differentiated instruction.
- **Tutoring-** available by appointment before or after school

Course Schedule Pacing Guide

- Weeks 1-2: Scientific Method, Data Analysis, Lab tools/procedures, Scientific notation, Metric units and conversions
- Weeks 3-4: Classifying matter, Separating mixtures, States of matter, Phase changes, Chemical/Physical properties, Density
- Weeks 5-6: Properties of Liquids, Gas Laws
- Weeks 7-8: Atomic theory and structure, Periodic Table families and trends
 - Element Project

Midterm Exams 10/10-10/11

- Weeks 10-12: Atomic bonding, Chemical reactions, Naming compounds, Balancing equations
- Weeks 13-15: Calculating and graphing motion, Newton's Laws
- Weeks 16-17: Mass vs. weight, Law of Universal Gravitation, Kinetic/Potential/Thermal energy

Final Exams 12/17-12/18

(Subject to change based on school schedule and teacher discretion.)

Board Policy 4.400 Upon request, parents/guardians shall have the ability to inspect the following items: instructional materials; teaching materials; teaching aids; handouts; and tests that are developed by and graded by their child's teacher. Parents wishing to inspect such materials should contact the building level principal in writing.

Physical Science Syllabus

L. Lutz

Student's name (print)_____ **Student's signature**_____

Parent/Guardian name (print)_____

Parent/Guardian signature_____