

Physics with Technology

Disclosure Document

My name is Wesley Morgan, and I am excited to have your child as a student in my class! I am a full-time intern from Brigham Young University, meaning that this is my first year of teaching. I have always loved physics, and I want to make it accessible for *all* students, even those who do not have a natural affinity for math or science. My objectives are that every student will:

1. Learn how to use technology, work in a team, and study effectively in order to prepare for future college education and/or careers
2. Learn the basic principles of physics and how they apply to everyday phenomena
3. Learn to think analytically, using math and reductionism to make complicated problems more manageable

Materials:

- A lined composition notebook for lab reports (usually stays in the classroom)
- Another notebook for taking notes (which factors into their participation grade)
- Scientific or graphing calculator

Topics of Study

1. MOTION: Speed, Velocity, Acceleration, Projectiles, Rotation, and Graphing
2. FORCES: Newton's Laws, Free-body Diagrams, Friction, Pressure, and Torque
3. ENERGY: Work, Elastics, Gravity, Momentum, Power, and Efficiency
4. THERMODYNAMICS: Temperature, Heat transfer, and Changes of State
5. WAVES: Oscilloscopes, Resonance, Optics, Interference, and Doppler Effect
6. ELECTRICITY: Coulomb's Law, Ohm's Law, and Series & Parallel Circuits
7. POWER GENERATION: Induction, Energy transmission, and Environmental issues

A more detailed schedule of our curriculum can be found on our Canvas website.

Social Media: Our official Instagram account, @shs_physics, will show pictures and videos that students take of experiments and demos. It is not part of their grade. Please inform me if you prefer that your student not post to Instagram or appear in these photos and videos.

Please cut off this attachment and return it to Mr. Morgan.

The following assignments will be factored into your student's grade:	<u>Grade Scale</u>
Participation & Attendance (10%): Students must participate respectfully and take notes. The first two tardies and two absences will not affect their participation points.	94-100 A 90-93 A- 86-89 B+
Homework (20%): Most homework will be done online using Canvas. Each student will need access to a computer. They may come in before or after school to use the classroom Chromebooks. Homework will be due at 9:00 pm the night before class. Late homework will receive a 10% penalty per day until 60% is reached.	82-85 B 78-81 B- 74-77 C+ 70-73 C
In-Class Labs (30%): This course will involve many in-class lab experiences. Students will be placed in lab groups of four and given specific responsibilities, such as measuring or recording data, so that everyone on the team may participate fully. Absent students may come in on their own time to complete a lab for full credit.	66-69 C- 60-66 D Below 60 F

Tests & Quizzes (40%): These will be done on Chromebooks in class. All students will have the opportunity do "Test Corrections" to learn they concepts they missed on a test. This is the only way for students to raise their grades besides completing missing assignments. At the end of the year, students will be given a lab final, where they individually pass off lab-based skills. This skill test as well as the state test will count on their grade.

Extra credit will rarely be given and will usually be part of a specific assignment.

For any further questions, feel free to email me at : wesley.morgan@nebo.edu

Please sign and return this attachment

Student's Name: _____ Parent's Signature: _____

Student's Signature: _____ Date: _____