

**Principles of Technology Syllabus  
2019 – 2020**

Mrs. Hill  
Room 2609  
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Conference: 1<sup>st</sup> period 7:45 am – 8:32 am  
Tutorials: Mon. & Tue. 7:10 am – 7:40 am  
Website: [hillsciencehhs.weebly.com](http://hillsciencehhs.weebly.com)

**COURSE DESCRIPTION:**

Welcome to Principles of Technology! In Principles of Technology, students will conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices.

**COURSE OUTLINE:** *(subject to change)*

- What is Science?
- Technology Laboratory and Field Investigations
- Safety Precautions and Regulations in Technology
- Scientific Reasoning in Technology
- Using the Scientific Process to Investigate Physical Concepts in Technology
- Using the Scientific Process to Evaluate and Communicate Physical Concepts in Technology
- Application of the Laws Governing Motion
- Forces in the Physical World
- Application of the Laws of Energy, Conservation, and Momentum
- The Concept of Thermal Energy
- Properties of Wave Motion and Optics
- The Concepts of Atomic, Nuclear, and Quantum Phenomena
- Employability Skills

**REQUIRED SUPPLIES:** *Bring these supplies to class every day!*

- Writing utensils (pen / pencil)
- Composition Book
- Scientific Calculator – NO SHARING
  - (NOTE: You may **NOT** use phone as calculator)

**OPTIONAL SUPPLIES** – *these supplies are to be left in the classroom*

- disinfecting wipes,
- tissues
- hand sanitizer
- dry erase markers

**GRADING:**

INSTRUCTIONAL PRACTICE	50%
INSTRUCTIONAL ACHIEVEMENT	50%

The value of the lab grades will vary; some will be counted as daily grades; some will be combined into major grades. Certain labs/project might have a partner; no guarantee that partners will have the same grades due to the fact that each student will have to write their own lab report. Rubrics will be given with each project and must be turned in on the date/class period they are in when the project is due. Students who do not turn in the rubric on the due date will result in a 5 point penalty from their final grade. During labs, students can be penalized for questions asked over procedure violations. (They will have the lab procedures to follow) Questions are encouraged over content and the understanding of their results. This is a science class and it is very important that units are used at all times, if the student fails to include units it will result in all or partial loss of credit for the problem.

**LATE WORK/ASSIGNMENTS:**

Late work penalty only applies to students who are in attendance, but fail to turn in work on time. Late work will only be accepted until the end of a grading period but it is always best to turn it in before the material is tested.

Days Late	Points deducted	Examples
1 day	10	100 records up to 90
2 days	20	100 records up to 80
3 days	30	100 records up to 70
4 or more days	40	100 records up to 60

**RETEST/CORRECTIONS:**

Students will be allowed to retest or correct a test if they score a 74 or below. Students will have **ONE (1)** week from the day they receive their graded test to retest or do corrections. The highest grade a student may receive on a retest or corrections is a **75**.

**MAKEUP POLICY:**

In accordance with district policy, it is the **student's responsibility** to consult with the teacher upon return to school about the work to be made up. This must be done at an appropriate time to not disrupt the class. This includes any assignments that were made or completed during the absence. If an absence involves a test or quiz, the student is expected to make up the missed work the day he returns to school – which is to be done before school, during advocate or after school! If this presents a problem, the student **MUST** counsel with the instructor about when the work will be made up. The student must contact the instructor by the end of the day the student returns to school.

**TUTORING:**

Those students who find they are in need of help are encouraged to attend tutoring sessions. **DO NOT HESITATE TO COME DURING ANY OF THE TUTORING SESSION TIMES posted!!** These sessions have proven to be extremely valuable!

**TARDIES AND CLASSROOM TIME:**

The school policy on tardies will be enforced. You should be in your seat ready to learn when the tardy bell rings. Any work from other courses should be left for another time and place. **ONLY PRINCIPLES OF TECHNOLOGY IN PRINCIPLES OF TECHNOLOGY!**

**POLICIES:**

Please refer to your handbook for policies. All policies will be enforced.

**CELL PHONES / ELECTRONIC DEVICES:**

All personal electronic devices (including but not limited to cell phones, smart watches, tablets, laptops, etc...) will be out of sight, on silent mode and put away. No personal devices, with the exception of scientific/graphing calculator, will be allowed for use during lectures/quizzes/exams. Students are not allowed to have headphones on in class and students are not allowed to charge any electronic devices while in school.

***If student is caught with their phone out during a quiz or test they will receive a zero for their grade, an AP will be notified, as well as the parent.***

**REMIND:**

Each student is required to sign up for Remind in order for them to receive important instructions, reminders, and/or encouragement. Parents are also encouraged to sign up.

To Sign Up:

TEXT: @hill7654

TO: 81010

**WEBSITE:**

**hillsciencehhs.weebly.com**

Please refer to the class website for important information, class notes, deadlines, etc. This will be a valuable resource for you!

Please feel free to contact me anytime. Emailing me at [kthill@huntsville-isd.org](mailto:kthill@huntsville-isd.org) is a great (and fast) way to catch me during the day. I will return phone calls during my conference or at the end of the day.

I look forward to a great school year with every one of you!!!

-- Mrs. Hill