

Energy & the Environment

Green is the future of technology!

Learning to handle earth with care...



Students explore sustainable energy solutions and investigate the impact of energy on our lives and the world. Students design and model alternative energy sources and evaluate options for reducing energy consumption. The recent innovations of alternative energy systems provide inexhaustible energy that can be used to supplement the energy obtained from fossil fuel. These alternatives include wind, solar, geothermal

, hydropower, and biomass. Most of these systems generate power with virtually zero carbon emissions. Students study the global energy problem and discuss innovative solutions to promote energy security. Students actively participate in energy conservation through turning off the lights when they leave a room, reducing water usage and adjusting the thermostat to a more reasonable temperature.

Your Keys to the Course

TEACHER

Mr. Murphy



WHERE & WHEN

Period

Room **309**

Technology Education Department

www.mrteched.com

tmurphy@smithtown.k12.ny.us

Please schedule extra help with Mr. Murphy during the following periods.



Nano-Particles

Lesson Summary

Lesson 1: Investigating Energy

Lesson 2: Sustainable Energy

Lesson 3: Making an Impact

WEBSITE: <http://mrteched.com>

Project Lead The Way(PLTW): <https://www.pltw.org/>

PLTW Personal Password: _____

PLTW Username: _____

Google Classroom Code: _____

↓ Cut along dotted line and return bottom to Mr. Murphy ↓

I have a complete understanding of the classroom and lab safety rules and procedures and will make every effort in making sure I abide by them while present in these rooms. I am responsible and will be held accountable for my actions.

Students Name: _____ Class Name: _____ Period #: _____

Students Signature: _____ Grade Level: _____

Parent/Guardians Signature: _____ Phone #: _____

Parent/Guardians Email: _____ Date: _____

CLASS DETAILS

All schoolwide rules apply!

CLASSROOM RULES

- Students are responsible for cleaning up after themselves.
- Students are required to participate in lab cleanup and will be counted towards your grade.
- Please be environmentally conscious and don't be wasteful with materials.
- No students are allowed to enter the classroom or lab without a Technology teacher present.
- The teacher and school district will not be held liable for any personal belongings left behind.

TECHNOLOGY LAB RULES

Students must understand and follow all classroom rules as well as lab safety rules, receive a 100 % on a lab safety quiz, and bring in the "Lab Safety Parent/Guardian Safety Signature Form" signed by both the student and the parent and/or guardian.

Supplies Required

- 5 - #2 Pencils
- 2 – Pens
- 1 – 2 Pocket Folder
- 1 – Gallon size Ziploc baggie

Optional Supplies:

- Earbuds
- Cordless mouse

Preparedness:

Come to class prepared daily with the required supplies. Be prepared; body, mind, and supplies and ready to interact and learn.

- ❖ All engineering notebooks must remain in class at all times.

Teamwork:

Teamwork is an essential skill to succeed, please take the opportunity in helping yourself to learn from your teammates and share your successes with them.

Final Portfolio:

The Engineering Notebook, also known as the final portfolio, is the compilation of notes, design briefs, sketches, charts, and final drawings and will be counted as 11% of the final grade in Powerschool.

Grades will be based on the following percentages:

Classwork & Activities	40%
Homework & Participation	10%
Projects	40%
Tests & Quizzes	10%

Please print in black and white to save money

Safety First!