

Disciplinary Actions: *The order and type of consequences depend on the nature and severity of the infraction.*

Verbal Warning
Lunch Detention and phone call home. (*Minor Infractions*).
Counselor Referral.
Discipline Referral. (*Major and Chronic Disciplinary Infractions*).

Course Standards:

Standard 1: Employability Skills

Communicate effectively through various means.
Demonstrate creativity and problem-solving skills.
Exhibit critical thinking in career planning.
Model work readiness traits (integrity, honesty, accountability).
Apply teamwork skills and demonstrate productivity.
Present a professional image.

Standard 2: Energy, Work, Power, and Force

Define terms related to energy use and measurement.
Explain Newton's Laws.
Measure energy and determine work accomplished.
Differentiate between energy and power.
Identify common forms of power.

Standard 3: Simple Machines

Identify and explain six simple machines.
Understand mechanical advantage.

Discuss Kirchoff's Law.

Standard 6: Small Engines

Describe the operation of four-stroke and two-stroke engines.
Explain valve timing and lubrication systems.
Disassemble and reassemble a basic small engine.

Here's why energy is important
Energy efficiency everywhere
Energy systems are ecosystems
Getting real about workplace safety
Organizations that prioritize safety
Good regulations do great things

Fueling Our Energy Future

What Are the Facts on Fuels?
Where Generation Meets Demand

The Technologies that Generate Electricity

Steam-Electric Power Basics
Natural Gas
Coal
Nuclear
Wind
Hydroelectric
Solar Photovoltaics (PV)
Biomass and Biogas
Geothermal

Our Generation's Energy Trends

Changes in power generation
Emerging Fuel: Hydrogen
Emerging Fuel: Marine Energy
Energy Storage Systems (ESS)

The Past, Present, and Future of Energy

Electric Revolution: From Lightning to Current War
The First Energy Companies
Rapid Expansion of Electricity Service

Assessment Methods:

Major Grades= 40% **Minor Grades= 60%** **Total= 100%**

Classwork/Homework	=	Minor
Quizzes	=	Minor
Exams	=	Major
Papers/Presentations/Debates	=	Major
Projects & Engineering Notebook	=	Major

