

The Future of Energy Syllabus
2019 - 2020 / Trimester 3
Richard Aspinall - Team Katahdin

“Energy, the Environment, and Our Future” will be the topic of this core class. We will discuss the meaning and definitions of energy, how and why it is used around the world, the unintended consequences of energy usage (pollution, changing the climate, etc...), and the future sources of energy.

Students will be graded individually and sometimes as a group (group projects). Students will have a variety of assessments which will include homework assignments, quizzes/tests, presentations, reports & essays and research web quests.

Essential Questions:

1. What is energy?
2. How have the different sources, and uses of energy, shaped the world we live in?
3. How will alternative uses of energy shape our future?

Next General Science Standards

MS-ESS3-1. Construct a scientific explanation based on evidence for how the uneven distributions of Earth’s mineral, energy, and groundwater resources are the result of past and current geoscience processes.

MS-ESS3-5. Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.

CCSS: ELA - Literacy

CCSS.ELA-LITERACY.WHST.6-8.7

Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.

CCSS.ELA-LITERACY.WHST.6-8.9

Draw evidence from informational texts to support analysis, reflection, and research.

Class Structure and Grading:

Projects, Presentations 40%

Some of the work in this course will be in the science lab. Some of the work will require group and individual work. This work will culminate in projects and presentations.

Assessments 20%

Quizzes and tests will be given from time to time with adequate opportunity for student preparation and study provided.

Homework/Classwork 40%

Homework assignments provide needed background information for activities to follow, and to enhance lab work. Homework is to be turned in on time for credit to be given. Unless due to absence or unforeseen circumstances, late work (24 hours) will only be graded up to a score of 80, afterwards it will not be accepted for credit. Classwork will consist of reinforcing information to be completed "in class".

Class and Work Expectations/HOWL Rubric

Using our HOWL (Habits of Work & Learning) rubric, students will also be graded on class participation, time management and punctuality, as well as other topics to assist with students' personal growth & learning.

Class & Work Expectations

Students are expected to arrive on time and prepared each day. They are also expected to turn in work on the day it is due, except in the case of absence. If there are special circumstances that will prevent a student from completing work by the due date, it is the student's responsibility to talk to the teacher before the work is due. If a student misses school, it is his/her responsibility to speak to the teacher immediately upon return to school to find out what was missed and when the missed work will be due.