

Matter & Energy 2015-2016

Global Awareness

Volume 2 Issue 1

Fall Semester

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Materials:

- Three ring binder
- paper
- Pens & Pencils
- Colored pencils/markers
- Highlighter
- Composition Book for warm-ups and exits

Grading:

75% = Assessments
[Include all standard based assignments except homework]

25% = Formative Assessments such as team work, attendance, attitude, organization, work habits, on time assignments, homework.

90-100 = A

80-89 = B

70-79 = C

60-69 = Not Yet

0-59 = Not Yet

NOTE: We will adhere to the AHS proficiency policy

Description & Philosophy

Matter & Energy is a year-long, two semester course. This course has been designed to meet the needs of students who will be required to understand the skills, processes, and concepts of Physical Science for success on future Maryland High School Assessment Test. Throughout this course you will demonstrate the ability to use scientific skills and processes (Core Learning Goal 1) and you will use scientific skills and processes to explain the composition, structure, and interactions of matter in order to support the predictability of structure and energy transformations (Core Learning Goal 4)

In a world filled with products of scientific inquiry, scientific literacy has become important for EVERYONE. All students have a stake in the future of their environment. We all need to make decisions concerning important scientific issues-physical science included. In the workplace, jobs demand that people be able to learn, reason and think creatively, as well as make decisions and solve problems. The global economy demands the United States have a scientifically capable citizenry. Be ready!!

Go Wildcats!!!!



Matter & Energy Themes & projects

First Semester

Quarter 1

Unit 1: Systems: "All Systems Go!"

Project: Build a Rocket

Unit 2: Forces on a System: "Crash! Bang! Boom!"

Project: Build to destroy: Natural Disaster

Quarter 2

Unit 3: Properties of Matter: "As a Matter of Fact"

Project: Energy Drink

Unit 4: Properties of Water: "Just Add Water"

Project: Oil Spill Clean Up

Contact Us

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2. Call
Work: 410-674-6500



"In the end, we will conserve only what we love, we will love only what we understand, we will understand only what we are taught."

Baba Dioum
Environmentalist



What if.....

1. Late Work?: See proficiency policy on AHS website
2. Absent and need make up work?: See absent folders in the class

Extra Help

Students can:

1. Come to WCH
2. Use NHS tutors
3. AMP's as tutors
4. After school by appointment
5. Before school by appointment
6. Email us



Semester 1 Standards & Core Learning Goals

1. 1a: Demonstrate that a system is an organized group of related components that form a whole
2. 1.b: Describe each part of the system and how it relates to a whole.
3. 1.2.3: Student will formulate a working hypothesis
4. 1.2.6: Identify appropriate methods for conducting an investigation including variables, controls, sample size, and repeat trials
5. 1.2.7: Use relationships discovered in lab to explain phenomena observed outside the lab
6. 1.3.4: Learn the use of new instruments and equipment by following instructions in a manual or oral direction
7. 1.4.2: The student will analyze data to make predictions, decisions, or draw conclusions
8. 1.4.3: Use experiment data from various investigators to validate results
9. 1.4.8: Use models and simulations to extend understanding of scientific concepts
10. 1.4.9: Use and analyze data to confirm, modify, or reject, a hypothesis
11. 1.5.2: Explain scientific concepts and processes through drawing, writing, and/or oral communication
12. 3.1.1: Describe the unique characteristics of chemical substances and macromolecules utilized by living systems
13. 3.1.2: Discuss factors involved in the regulation of chemical activity as part of a homeostatic mechanism
14. 5.1.2: The student will use algebraic and geometric concepts to qualitatively and quantitatively describe an objects motion

PARENTS

Helpful Websites

<http://www.arundelhigh.org>

Rules of the Road

Respect:

1. Yourself
2. Others
3. Property