

Teacher: Mr. Surette
School: Dr. Lewis S. Libby School
Course: Applied Physical Science

CLASSROOM EXPECTATIONS FOR 2009 - 2010 SCHOOL YEAR

Introduction:

This course will be offered during each trimester and will focus on the “hands-on” application of scientific concepts. Each class will consist of a brief lecture regarding a specific scientific concept followed by a traditional laboratory exercise. The following general topics will be covered throughout the trimester.

Introductory Portion: {1-2 class periods}

*** Laboratory Safety**

- Review of Flinn Laboratory Safety Contract

*** Explanation of Science and the Scientific Method**

- “What is Science” Writing Prompt
- Lecture on “What is Science”, steps of Scientific Method, Variables and Controls in Experiments
- Battery, Bulb, and Wire Laboratory Exercise

Chemistry Portion: {3-4 class periods}

*** The Properties of Matter**

- Pre-Test on Chemistry Concepts
- Properties of Matter Demonstrations
- Lecture on Matter, Mass, Volume, and Density
- Mass, Volume, and Density of Objects Laboratory Exercise
- Lecture on Phases of Matter {Gases, Liquids, and Solids}
- Lecture and Demonstrations on Changing Phases of Matter
- Phase Change Laboratory Exercise
- Post-Test on Chemistry Concepts

Astronomy Portion: {3-4 class periods}

*** Sun, Earth, and Moon**

- Pre-Test on Astronomy Portion
- Astronomy Unit Introduction Writing Prompt
- Astronomy Picture of the Day on MLTI Laptop
- Lecture on Characteristics of Sun, Moon, and Earth and Revolution and Rotation
- Earth-and-Moon Viewer Laboratory Exercise on MLTI Laptop

*** Solar System**

- Astronomy Picture of the Day on MLTI Laptop
- Lecture on the Solar System and Planetary Motion
- Discussion on diagrams of Inner Planets, Outer Planets, Asteroid Belts, Comets, and Meteors
- Article and Questions on Mercury, Venus, Earth and Mars
- Article and Questions on Jupiter, Saturn, Uranus, Neptune and Pluto
- Post-Test on Astronomy Portion

Physics Portion: {3-4 Class Periods}

*** Motion and Speed**

- Pre-Test on Physics Portion
- Lecture on Motion, Speed, Average Speed, and the effect of Slope on Speed.
- Speed and Slope Laboratory Exercise

*** Motion and Force**

- Lecture on Force, Unbalanced and Balanced Forces, and Newton's Second Law of Motion
- Newton's Second Law of Motion Laboratory Exercise
- Post-Test on Physics Portion

General Information:

* Having a well-kept notebook will be essential to your success in this class. **I strongly encourage all students to purchase a 1 or 1 and 1/2 inch binder.** You will keep all of your notes, pre-tests, post-tests, laboratory exercises, and worksheets in this binder.

* A typical class could consist of a variety of activities including; note taking, in-class projects, laboratory experiments, worksheets, computer work, etc.

Grading:

Homework (0%): There will be no homework assigned during this class, therefore it will not affect your grade whatsoever.

Effort (70%): This will account for the majority of your overall grade in this class. Your effort will be judged on your performance during the following types of in-class activities; pre-tests, laboratory exercises, MLTI laptop activities, laboratory demonstrations, and note taking.

Post-Tests (30%): At the conclusion of each portion of the overall class, you will take a post-test. This test will assess your understanding of the concepts presented throughout the particular portion of the overall class. These tests will be composed of multiple-choice and constructed response questions, similar to the Maine Educational Assessment.

TOTAL: = 100%

Classroom Discipline:

- Name on the Board = Warning
- Name on the Board and 1 check mark = 30 min. Detention
- Name on the Board and 2 check marks = 60 min. Detention and phone call to parent/guardian
- Name on the Board and 3 check marks = Dismissal to the office and a phone call home to parent / guardian

Classroom Expectations:

- * Show respect to your fellow students and to me by not speaking when somebody else is speaking.
- * Arrive to class on time and prepared with your notebook, pencil/pen and MLTI laptop.
- * Appropriate language is always expected during class.
- * That you give your best effort each class.

I will ALWAYS be available to help ANY student with class work before or after school. Please don't be afraid to ask for help if you do not understand the concepts being presented in class. We will set up a time to meet and work together until you understand the concept(s).