

PHYSICAL SCIENCE IA
Course Outline: 2355

I. Textbook Assignment:

Matter, Motion and Machines (5.0 credits)

- Read: Units 1-8
- Complete: all exercises
- Complete two of the Extension Activities listed below.

II. Extension Activity Options:

1. Research one of the sources of energy listed below using the US Department of Energy's Internet website.
 - a. Wind energy
 - b. Solar energy
 - c. Ocean energy
 - d. GeothermalWrite a 1-paragraph summary based upon your research. Use Writing Rubric S I.
2. Use the Internet to research how the laws of physics have played into the sport of skateboarding. You can use the following website to locate the science of skateboarding: www.exploratorium.edu. Discover three ways in which the science of physics has been used to improve the sport of skateboarding. Summarize your findings into a 1-paragraph essay. Use Writing Rubric SI.
3. Using a computer graphics program, such as the Microsoft WORD drawing toolbar, draw an atom of hydrogen, helium, or lithium. Label all protons, electrons, and neutrons (if any).
4. Teacher generated activity, approved by the site administrator.

III. Evaluation

- See your teacher for a unit test.
- All Writing assignments must meet the proficient level of the rubric provided by the teacher.
- All textbook work must meet 70% accuracy level for a "C" grade.