



Content Standards

The following California Content Standards form the basis for USS Midway Museum's Grade 7 Science Program, "Onboard With Light":

SCIENCE STANDARDS: Physical Principles in Living Systems (Physical Sciences):

6. Physical principles underlie biological structures and functions. As a basis for understanding this concept:

- a.** Students know visible light is a small band within a very broad electromagnetic spectrum.
- b.** Students know that for an object to be seen, light emitted by or scattered from it must be detected by the eye.
- c.** Students know light travels in straight lines if the medium it travels through does not change.
- d.** Students know how simple lenses are used in a magnifying glass, the eye, a camera, a telescope and a microscope.
- f.** Students know light can be reflected, refracted, transmitted, and absorbed by matter.
- g.** Students know the angle of reflection of a light beam is equal to the angle of incidence.

MATH STANDARDS: Mathematical Reasoning

3.0 Students determine a solution is complete and move beyond a particular problem by generalizing to other situations:

- 3.2** Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
- 3.3** Develop generalizations of the results obtained and the strategies used and apply them to new problem situations.