

Science Program

K-12 General Learning Goals

The student will:

- demonstrate mastery of scientific concepts through individual assessment tools within each classroom. These may include assessments of student products, oral and written communications skills, and laboratory techniques.
- apply critical and creative thinking skills and scientific inquiry to solve practical problems and to create models of scientific phenomena.
- develop scientific literacy, by
 - demonstrating mastery of appropriate scientific vocabulary;
 - identifying possible sources of bias;
 - recognizing the need to support scientific conclusions with replicable empirical evidence.
- develop skills in cooperation and communication in the practice of scientific inquiry.
- demonstrate an awareness of hazardous situations and appropriate procedures and behavior in the laboratory and classroom.
- read, write and compute at grade level as indicated by standardized tests such as the MCAS, at the proficient level.
- use computers in the presentation, graphing, and analysis of data; and in scientific research. Students will access current technology to
 - solve problems,
 - analyze case studies, and
 - compare qualitative and quantitative results.
- develop an awareness of personal, community, and environmental responsibility, emerging from an understanding of current scientific knowledge.
- learn to value multiple points of view in order to inform and synthesize their world perspective.
- explore different fields of science, through such offerings as internships, the "Doctor for a Day" program, and invitations to lectures at the five local colleges, as well as two community colleges.