

Goals*

The K-8 Science curriculum addresses the following goals:

GOAL #1: Know the basic concepts and theories of, and the interrelationships among biology, earth and space science, chemistry, physics, and mathematics.

GOAL #2: Understand how to apply these basic concepts and theories, as well as scientific skills and processes, to real-world settings.

GOAL #3: Recognize and participate in scientific endeavors which are evidence-based and encourage inquiry that leads to a greater understanding of the world; formulation of hypotheses, design of experiments, use of technology, analysis of data, and drawing of conclusions.

GOAL #4: Select and properly use appropriate technology, equipment and materials.

GOAL #5: Understand how existing and emerging technologies might have an effect on society and our quality of life.

GOAL #6: Analyze the possibilities and limits of science and technology in order to make and defend decisions about societal issues.

GOAL #7: Understand that the way in which scientific knowledge is obtained and analyzed is crucial to the validity of conclusions.

The 9 -12 Science curriculum addresses the following goals:

GOAL #1: Know the basic concepts and theories of, and the interrelationships among biology, earth and space science, chemistry, physics, and mathematics.

GOAL #2: Understand how to apply these basic concepts and theories, as well as scientific skills and processes, to real-world settings.

GOAL #3: Recognize and participate in scientific endeavors which are evidence-based and encourage inquiry that leads to a greater understanding of the world; formulation of hypotheses, design of experiments, use of technology, analysis of data, and drawing of conclusions.

GOAL #4: Enable students to select and properly use appropriate technology, equipment and materials.

GOAL #5: Understand the way science, technology and society are interconnected in order to become sensitive to the societal and ethical consequences of science.

GOAL #6: Enable each student to participate as an aware, and scientifically active literate citizen in a technologically evolving world.

GOAL #7: Understand that the way in which scientific knowledge is obtained and analyzed is crucial to the validity of conclusions.

GOAL #8: Participate in the process of scientific inquiry from statement of problem to conclusion using the experimental method.