

K-12 Science Purpose Statement/Exit outcomes

The purpose of Roseville Area Schools science program is to develop citizens who understand science concepts and science ways of thinking (habits of mind) in order to facilitate personal and social decisions. An understanding of science makes it possible for everyone to share in the richness and excitement of comprehending the natural world.

Program outcomes/Learning Goals

Students will be able to:

1. Ask, find, and determine answers to questions derived from curiosity about everyday experiences.
2. Describe, explain, and predict natural phenomena, using laws of nature and logical reasoning to connect evidence and assumptions.
3. Read and view, with understanding, information about science in the media and to engage in social conversation about the validity of the conclusions.
4. Identify scientific issues underlying national and local decisions and express positions that are scientifically and technologically informed.
5. Evaluate the validity and quality of scientific information on the basis of its source and the methods used to generate it.
6. Appreciate the dependency of living things on each other and on the physical environment.
7. Develop a respect for nature that should inform decisions on the uses of technology.
8. Understand that science has a particular way of observing, thinking, experimenting and validating to develop information about the world.
9. Recognize that science is a human endeavor that has profoundly affected the world throughout history.

Adapted from the **National Science Education Standards (NSES)**, pp 22-23 and Project 2061's **Science for All Americans**, pp vi, 3