

Early Grades K-5

The elementary science section of the *SCS* integrates the unifying concepts of science to provide continuity in science instruction across grade levels and among science disciplines. These unifying concepts are:

- Systems, Order and Organization.
- Evidence, Models, and Explanation.
- Constancy, Change, and Measurement.
- Evolution and Equilibrium.
- Form and Function.

The elementary science section of the *SCS* strands provides unifying threads of understanding that span the content areas of elementary science. The strands include the following goals:

Nature of Science

As a result of activities in grades K-5, all students should develop an understanding of:

- Science as a human endeavor.
- Science as inquiry.
- The nature of scientific inquiry.

Science as Inquiry

As a result of activities in grades K-5, all students should develop:

- Abilities necessary to do scientific inquiry.
- Abilities necessary to understand, to use, and to apply the unifying concepts and processes of science including:
 - evidence, explanation, measurement.
 - ordering, organizing.
 - changes (time, rate, scale, patterns, trends, cycles).
 - Systems.
 - boundaries.
 - components.
 - resources.
 - flow.
 - feedback.
 - form, function, equilibrium.
 - models.

Science and Technology

As a result of activities in grades K-5, all students should develop:

- Ability to use and create technological designs.
- Understanding about technology and design.
- Ability to distinguish between natural and human made objects.

Science in Personal and Social Perspectives

As a result of activities in grades K-5, all students should develop understanding of:

- Impacts of science and technology on their daily lives.
- The relationship of science to personal health and welfare.
- Characteristics of and changes in populations.
- Applications of science and technology to local challenges.