

The California State Board of Education adopted the following academic content standards. RVSD's Essential Standards appear in bold with a box around them (draft, as of 1/18/08).

ROSS VALLEY SCHOOL DISTRICT

Grade One

Science Content Standards

Physical Sciences

1. Materials come in different forms (states), including solids, liquids, and gases. As a basis for understanding this concept:

- a. Students know solids, liquids, and gases have different properties.**
- b. Students know the properties of substances can change when the substances are mixed, cooled, or heated.**

Life Sciences

2. Plants and animals meet their needs in different ways. As a basis for understanding this concept:

- a. Students know different plants and animals inhabit different kinds of environments and have external features that help them thrive in different kinds of places.**
- b. Students know both plants and animals need water, animals need food, and plants need light.**
- c. Students know animals eat plants or other animals for food and may also use plants or even other animals for shelter and nesting.**

- d. Students know how to infer what animals eat from the shapes of their teeth (e.g., sharp teeth: eats meat; flat teeth: eats plants).

- e. Students know roots are associated with the intake of water and soil nutrients and green leaves are associated with making food from sunlight.**

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Earth Sciences

3. Weather can be observed, measured, and described. As a basis for understanding this concept:
 - a. Students know how to use simple tools (e.g., thermometer, wind vane) to measure weather conditions and record changes from day to day and across the seasons.
 - b. Students know that the weather changes from day to day but that trends in temperature or of rain (or snow) tend to be predictable during a season.**
 - c. Students know the sun warms the land, air, and water.**

Investigation and Experimentation

4. Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will:
 - a. Draw pictures that portray some features of the thing being described.
 - b. Record observations and data with pictures, numbers, or written statements.**
 - c. Record observations on a bar graph.
 - d. Describe the relative position of objects by using two references (e.g., above and next to, below and left of).
 - e. Make new observations when discrepancies exist between two descriptions of the same object or phenomenon.