Grade One
CA Science Content Standards*
FOSS CA 2007 Correlations

Physical Sciences

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

Modules	Solids and Liquids (SL) Air and Weather (AW)
a. Students know solids, liquids, and gases have different properties.	**Inv. 1 Solids (SL)** SR: *Everything Matters* (SL) **Inv. 2 Liquids (SL)** SR: *Solids and Liquids* (SL) **Inv. 3 Bits and Pieces (SL)** **Inv. 4 Solids and Liquids with Water (SL)** **Inv. 1 Exploring Air (AW)** SR: *What Is All Around Us?*
b. Students know the properties of substances can change when the substances are mixed, cooled, or heated.	**Inv. 4 Solids and Liquids with Water (SL)** SR*: Mix It Up!* (SL) SR: *Solids to Liquids and Back Again* (SL)

Life Sciences

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

Module	Plants and Animals
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.	**Inv. 3 Terrariums** SR: *Plants and Animals Around the World*
b. Students know both plants and animals need water, animals need food, and plants need light.	**Inv. 1 Grass and Grain Seeds** SR: *What Do Plants Need?* SR: *The Story of Wheat* **Inv. 2 Stems** SR: *How Seeds Travel* **Inv. 3 Terrarium** SR: *What do Animals Need?* SR: *Plants and Animals Around the World* **Inv. 4 Bulbs and Roots**
c. Students know animals eat plants or other animals for food and may also use plants or even other animals for shelter and nesting.	**Inv. 1 Grass and Grain Seeds** **Inv. 3 Terrariums** SR: *Plants and Animals Around the World*
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).	**Inv. 4 Bulbs and Roots** SR: *Animal Teeth*
e. Students know roots are associated with the intake of water and soil nutrients and green leaves are associated with making food from sunlight.	**Inv. 1 Grass and Grain Seeds** SR: *What Do Plants Need?* **Inv. 2 Stems** **Inv. 4 Bulbs and Roots**

* *Science Content Standards for California Public Schools: Kindergarten Through Grade Twelve* (Sacramento: California Department of Education, 2000).

Earth Sciences

3. Weather can be observed, measured, and described. As a basis for understanding this concept:

Module	Air and Weather
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.	**Inv. 2 Observing Weather** **Inv. 3 Wind Explorations** SR: *Understanding the Weather*
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.	**Inv. 2 Observing Weather** SR: *What's the Weather Today?* **Inv. 4 Looking for Change** SR: *Seasons*
c. Students know the sun warms the land, air, and water.	**Inv. 2 Observing Weather** SR: *What's the Weather Today?* **Inv. 4 Looking for Change** SR: *Seasons*

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:

Module	Solids and Liquids (SL) Plants and Animals (PA) Air and Weather (AW)
a. Draw pictures that portray some features of the thing being described.	**Inv. 1 Solids (SL)** **Inv. 4 Solids and Liquids with Water (SL)** **Inv. 1 Grass and Grain Seeds (PA)** **Inv. 2 Stems (PA)** **Inv. 3 Terrariums (PA)** **Inv. 4 Bulbs and Roots (PA)** **Inv. 1 Exploring Air (AW)** **Inv. 2 Observing Weather (AW)**
b. Record observations and data with pictures, numbers, or written statements.	**Inv. 1 Solids (SL)** **Inv. 2 Liquids (SL)** **Inv. 3 Bits and Pieces (SL)** **Inv. 4 Solids and Liquids with Water (SL)** **Inv. 1 Grass and Grain Seeds (PA)** **Inv. 2 Stems (PA)** **Inv. 3 Terrariums (PA)** **Inv. 4 Bulbs and Roots (PA)** **Inv. 1 Exploring Air (AW)** **Inv. 2 Observing Weather (AW)** **Inv. 3 Wind (AW)** **Inv. 4 Looking for Change (AW)**
c. Record observations on a bar graph.	**Inv. 2 Liquids (SL)** **Inv. 3 Bits and Pieces (SL)** **Inv. 4 Solids and Liquids with Water (SL)** **Inv. 1 Grass and Grain Seeds (PA)** **Inv. 4 Looking for Change (AW)**
d. Describe the relative position of objects by using two references (e.g., above and next to, below and left of).	**Inv. 3 Terrariums (PA)** **Inv. 1 Exploring Air (AW)** **Inv. 2 Observing Weather (AW)**
e. Make new observations when discrepancies exist between two descriptions of the same object or phenomenon	**Inv. 4 Solids and Liquids with Water (SL)** **Inv. 1 Grass and Grain Seeds (PA)** **Inv. 1 Exploring Air (AW)**

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