

Content Standard

## 2.1

**Materials can be classified as solid, liquid or gas based on their observable properties.**

## Second Grade

*Conceptual Theme: Properties of Matter*

*Guiding Question: How does the structure of matter affect the properties and uses of materials?*

Concepts	Focus Questions	Expected Content Performance	Expected Inquiry Performance	Instructional Resources and Technology	Assessment
<b>Solids tend to maintain their own shapes, while liquids tend to assume the shapes of their containers, and gases fill their containers fully.</b>	What are the properties of solids, liquids, or gases? How are solids and liquids different?	<b>A 18. Describe differences in the physical properties of solids and liquids.</b>	A INQ.1 A INQ.2 A INQ.4 A INQ.5 A INQ.6	FOSS - Solids and Liquids (Inv. 1, 2, 4) <b>FOSSWeb, Activity: Change It</b>	

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## 2.2

**Plants change their forms as part of their life cycles.**

## Second Grade

*Conceptual Theme:* **Structure and Function**

*Guiding Question:* **How are organisms structured to ensure efficiency and survival?**

Concepts	Focus Questions	Expected Content Performance	Expected Inquiry Performance	Instructional Resources and Technology	Assessment
The life cycles of flowering plants include seed germination, growth, flowering, pollination and seed dispersal.	How do flowering plants change as they grow?	<b>A 19. Describe the life cycles of flowering plants as they grow from seeds, proceed through maturation and produce new seeds.</b>	A INQ.1 A INQ.2 A INQ.3 A INQ.4 A INQ.5 A INQ.6 A INQ.7 A INQ.8 A INQ.9	FOSS - New Plants (Inv. 1)	
Light and water affect seed germination and plant growth.	How does light affect seed germination and plant growth? How does water affect seed germination and plant growth?	<b>A 20. Explore and describe the effects of light and water on seed germination and plant growth.</b>	A INQ.1 A INQ.2 A INQ.3 A INQ.4 A INQ.6 A INQ.7 A INQ.8 A INQ.9 A INQ.10	FOSS - New Plants (Inv. 2)	

Content Standard

**2.3**

**Earth materials have varied physical properties which make them useful in different ways.**

**Second Grade**

*Conceptual Theme: The Changing Earth*

*Guiding Question: How do materials cycle through the Earth's systems?*

Concepts	Focus Questions	Expected Content Performance	Expected Inquiry Performance	Instructional Resources and Technology	Assessment
<u>Soils can be described by their color, texture and capacity to retain water.</u>	What is soil? What are the properties of soil?	<b>A 21. Sort different soils by properties, such as particle size, color and composition.</b>	A INQ.1 A INQ.2 A INQ.4 A INQ.5 A INQ.6 A INQ.8 A INQ.9 A INQ.10	STC - Soils (L.1, 2, 3, 4, 5, 6, 7, 8, 14, 15, 16, 17) <a href="http://soils.usda.gov/education/">http://soils.usda.gov/education/</a>	
<u>Soils can be described by their color, texture and capacity to retain water.</u>	How is soil composition related to water retention?	<b>A 22. Relate the properties of different soils to their capacity to retain water and support the growth of certain plants.</b>	A INQ.1 A INQ.2 A INQ.3 A INQ.4 A INQ.6 A INQ.7 A INQ.9 A INQ.10	STC - Soils (L. 11,12, )	
<b>Soils support the growth of many kinds of plants, including those in our food supply.</b>	How is soil composition related to plant growth? How is the food supply dependent on soil composition?	<b>A 22. Relate the properties of different soils to their capacity to retain water and support the growth of certain plants.</b>	A INQ.1 A INQ.2 A INQ.3 A INQ.4 A INQ.5 A INQ.6 A INQ.7 A INQ.8 A INQ.10	STC - Soils (L. 9, 10)	

Content Standard

**2.4**

**Second Grade**

*Conceptual Theme:* **Science and Technology in Society**

**Human beings, like all other living things, have special nutritional needs for survival.**

*Guiding Question:* **How do science and technology affect the quality of our lives?**

Concepts	Focus Questions	Expected Content Performance	Expected Inquiry Performance	Instructional Resources and Technology	Assessment
<b>The essential components of balanced nutrition can be obtained from plant and animal sources.</b>	What are the basic food groups? What are the sources of common foods?	<b>A 23. Identify the sources of common foods and classify them by their basic food groups.</b>	A INQ.1 A INQ.4 A INQ.5 A INQ.6 A INQ.9 A INQ.10	Food is Elementary	
<b>People eat different foods in order to satisfy nutritional needs for carbohydrates, proteins and fats.</b>	How do people in different cultures use different food sources to meet their nutritional needs?	<b>A 24. Describe how people in different cultures use different food sources to meet their nutritional needs.</b>	A INQ.1 A INQ.2 A INQ.3 A INQ.4 A INQ.5 A INQ.6 A INQ.10	Food is Elementary	