

Welcome

We hope you find *Linking State Standards to Your School Garden* a helpful tool to guide you through the limitless possibilities of your school garden. Whether your garden is alive and well, or in need of revitalization, or perhaps it is still just an idea waiting to happen, we applaud you for recognizing the many benefits a garden can offer.

Linking State Standards to Your School Garden was created as a companion piece to California School Garden Network's (CSGN) book, *Gardens for Learning: Creating and Sustaining Your School Garden*. Created by educators, for educators, this resource aligns the activities identified on pages 20-28 to the K-6 teaching standards mandated by the California State Board of Education.

Today's students can experience a deeper understanding of natural systems, and become better stewards of the earth by designing, cultivating and harvesting school gardens with their own hands. School garden projects nurture community spirit, common purpose and cultural appreciation by building bridges among students, school staff, families and local businesses and organizations. If your garden occupies an expansive outdoor area, or if it is simply tomato plants growing on your classroom windowsill, these spaces will become living laboratories—a place to demonstrate, investigate, observe and learn. Research studies point to significant benefits gained from garden-based learning including:

- significant gains in overall GPA in math and science.
- improved classroom management and reduced discipline problems.
- significant increase in children's consumption of fresh fruits and vegetables.
- improved agricultural and ecological literacy.
- greater concern and willingness to care for living things.
- improved attitudes towards school and improved interpersonal relationships.

Much appreciation to California Association of Nurseries and Garden Centers for their sponsorship of *Linking State Standards to Your School Garden*. To obtain a free copy of CSGN's *Gardens for Learning* book, order online at www.csgn.org. For more information about California Foundation for Agriculture in the Classroom's resources and programs, visit www.cfaitc.org.

Happy Gardening!



Science

What are the differences between living and nonliving things? How are humans like plants? How are they different? Distinguish and describe differences and similarities.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences	2a,c	2b	2a	3a	2b,c; 3a	2	
Investigations & Experimentation	4a-e	4a-e	4a,c-g	4a,b,c,e	6a,c-f	6a-i	7a,d,e

How does a plant grow? Observe the life cycles of plants using fast-growing plants in your classroom.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences	2a,c	2a-e	2a,b,d	2a,d	2; 3	2e-g	
Investigations & Experimentation	4a-e	4a-e	4a,c-g	5a-e	6a,c-f	6a-i	

What do plants need to grow? Do all plants need the same things? Study the various conditions that different plants need to grow. Compare the things people need to the things plants need. Create experiments investigating what happens when plants are exposed to different amounts of light, water, air, space, and nutrients.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences	2a-c	2a-c	2a-f	2a,d	3b	2g	
Investigations & Experimentation	4a-e	4a-e	4a,c-g	5a-e	6a,c-f	6a-i	



4 - Science

Investigate the functions of different plant structures (cotyledons, roots, stems, leaves, flowers, fruits, and seeds).

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences	2c	2e	2f	3a	2; 3		
Investigations & Experimentation	4a-e	4a-e	4a,c-g	5a-e	6a,c-f		

How do plants reproduce? How do seeds work? Dissect flowers and seeds. What factors influence germination of seeds? Create experiments to investigate how light, heat, and moisture affect germination.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences	2a-c		2a,c,e,f	3a,c-e	3c		
Investigations & Experimentation	4a-e		4a,c-g	5a-e	6a,c-f		

Explain to students that some characteristics are inherited and others are caused by the environment. Locate examples of both in your garden.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences		2a	2c,e	3c,d	3b		
Investigations & Experimentation	4a-e	4a-e	4a,c-g	5a-e	6a,c-f		

How do plants use energy from the sun to make food? Discuss photosynthesis. Do plants need light to photosynthesize?

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences		2b	2e,f	3d	2a		
Investigations & Experimentation		4a-e	4a,c-g	5a-e	6a,c-f		

Discuss how plants adapt for survival. Research adaptations of seeds for dispersal and adaptations of flowers for attracting pollinators. Observe pollinators in the garden.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences		2a	2a,c	3a-d	3c	2e-g	
Investigations & Experimentation		4a-e	4a,c-g	5a-e	6a,c-f	6a-i	

Investigate the impact of environmental changes on plants.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences		2a	2c,e	3b,d	3b	2e-g	
Investigations & Experimentation		4a-e	4a,c-g	5a-e	6a,c-f	6a-i	

5 - Science



6 - Science

Study wildlife and insects along with their habitats.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences		2c	2b	3a-e	2c	2	
Investigations & Experimentation		4a-e	4a,c-g	5a-e	6a,c-f	6a-i	

Investigate food chains and webs. Demonstrate how plants are the primary source of energy for food chains.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Life Sciences		2c	2b	3c,d	2b		
Investigations & Experimentation		4a-e	4a,c-g	5a-e	6a,c-f		

Create a garden weather station. Record daily measurements and compare conditions with plant growth.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Earth Sciences	3b	3a-c				3a-c	
Investigations & Experimentation	4a,e	4a-e	4a-g	5a-e	6a-f	6b-i	7a-e,g,h

How are some soils different from others? Compare and contrast the properties of different types of soils (density, air spaces, presence of living organisms, composition, texture, smell, appearance).

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Earth Sciences			3a-e		4a-b; 5a-c		1; 2a-d
Investigations & Experimentation	4a,e	4a-e	4a-g	5a-e	6a-f	6a-i	7a-e,g,h

Simulate soil erosion in your classroom garden. Observe the difference in soil loss when water is splashed on a tilted, planted pot, and on a tilted, unplanted (but soil filled) pot.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Earth Sciences			3a-e			3a-e	1a-g; 2a,b-d
Investigations & Experimentation	4a,e	4a-e	4a-g	5a-e	6a-f	6b-i	7a-e,g,h

What is pH? How does it affect plants? Use litmus paper or a test kit to test the pH of different soils. Investigate how plants respond to soils with different pH levels.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Physical Sciences						1a	
Investigations & Experimentation	4a,b,e	4a-e	4a,c,d,g	5a-e	6a,c-f	6a-i	7a-e

7 - Science



8 - Science

Simulate the water cycles in the indoor garden by covering it with a "dome" of clear plastic. Study and observe the transpiration, evaporation, and condensation of water.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Physical Sciences	1a-c	1a-b		1e			
Investigations & Experimentation	4a,b,d,e	4a-e	4a,c,d,g	5a-e	6a,c-f	6a-i	7a-e,h

What are the properties of different types of light? Cover pots with cellophane of different colors to screen out all but one wavelength of

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Physical Sciences				1a; 2a-d			
Investigations & Experimentation	4a-e	4a-e	4a,c,d,g	5a-e	6a,c-f	6a-i	7a-e,h

How does energy change to matter during photosynthesis?

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Physical Sciences				1a,b,f	2a-c; 3a-d	1g; 2f,g	5a-e
Investigations & Experimentation				5a-e	6a,c-f	6a-i	7a-e,h

Mathematics

Measure the growth rates of plants and display results on different types of graphs. Make predictions regarding future growth. Use standard and nonstandard units of measurement.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense	1.1	1.1, 1.2, 1.3, 1.4, 2.1	1.0, 6.1	1.1		1.1, 2.1, 2.2	1.1, 1.2, 2.1, 2.3
Algebra & Functions			1.3	1.4	1.4	1.1, 1.2, 1.4, 1.5	2.1, 2.2, 2.3
Measurement & Geometry	1.1	1.1	1.1, 1.2, 1.3	1.1, 1.2, 1.3, 1.4	1.1, 2.1, 2.2, 2.3	1.4	
Statistics, Data Analysis & Probability	1.1	1.1	1.1, 1.2, 1.3, 1.4		1.1, 1.2, 1.3, 2.1, 2.2	1.1, 1.2, 1.4, 1.5	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2
Mathematical Reasoning				1.2, 2.1, 2.3, 2.6	2.1, 2.3, 2.6, 3.1, 3.2	1.1, 2.1, 2.2, 2.3, 2.5, 2.6, 3.2, 3.3	

Host a bean race. Plant a number of beans at the base of a trellis and track their growth on a chart. Determine the rate of growth and award the fastest plant a blue ribbon.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense	1.1, 2.1	1.2					
Algebra & Functions			1.3			1.4, 1.5	2.1, 2.2, 2.3
Measurement & Geometry	1.1	1.1	1.1, 1.2, 1.3	1.1, 1.4	2.1, 2.2, 2.3		
Statistics, Data Analysis & Probability	1.1	1.1, 1.2	1.1, 1.2, 1.3, 1.4	1.1	1.1, 1.2, 1.3, 2.1, 2.2	1.1, 1.2, 1.3, 1.4, 1.5	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5
Mathematical Reasoning	1.1, 2.1		2.1, 2.2	2.3, 2.6	2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3		



10 - Mathematics

Using information from seed catalogs, predict dates of germination and maturity.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense			2.2, 2.3		1.4		
Algebra & Functions						1.1, 1.2	
Measurement & Geometry	1.2	1.2	1.4	1.4			
Statistics, Data Analysis & Probability					1.3		
Mathematical Reasoning					2.5, 2.6	1.1, 2.1, 2.2	

Plan backward from a desired harvest date to determine when each crop should be planted.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense		2.1, 2.2, 2.5, 2.6, 3.1	2.1, 2.2, 2.3, 6.1		3.1		
Algebra & Functions		1.1, 1.2, 1.3	1.1, 1.2, 1.3		1.1, 1.2, 1.3	1.1, 1.2, 1.3	1.1, 1.2, 1.3, 1.4
Mathematical Reasoning				1.1, 1.2	1.1, 1.2, 2.1	1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3	1.1, 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 3.1, 3.2, 3.3

Measure your garden parameters and calculate the area. Use graph paper to make a map to scale of your garden.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Measurement & Geometry	1.1, 2.1, 2.2	1.1, 2.1, 2.2, 2.3, 2.4	1.1, 1.2, 1.3, 2.1, 2.2	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3	1.1, 1.2, 1.3, 2.1, 2.2, 2.3

Calculate amounts of fertilizer to use per quart and per liter of water.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense				3.1, 3.2, 3.3	1.5, 1.6, 1.7	1.5, 2.3, 2.4, 2.5	2.1, 2.2, 2.3, 2.4
Algebra & Functions				1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 2.2			

Chart temperatures of the air and soil in your garden in Fahrenheit and Centigrade.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense					1.8	1.5, 2.1	
Algebra & Functions			1.1, 1.2, 1.3				2.1
Statistics, Data Analysis & Probability		1.1, 1.2	1.1, 1.2, 1.3, 1.4	1.3, 1.4	1.1, 1.2, 1.3	1.1, 1.2, 1.3, 1.4, 1.5	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5
Mathematical Reasoning						2.1, 2.2, 2.3	

11 - Mathematics



12 - Mathematics

Determine the weight and volume of soil mix when wet and dry. Determine the volume of soil in a rectangular window box.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense					4.1, 4.2		
Algebra & Functions				1.5	1.1, 1.2, 1.4		2.1, 3.1, 3.2
Measurement & Geometry		1.1		1.1, 1.2, 2.5, 2.6		1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3	1.1, 1.2, 1.3
Statistics, Data Analysis & Probability		1.1, 1.2	1.1, 1.2, 1.3, 1.4			1.1, 1.2	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5
Mathematical Reasoning							2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3

Investigate vegetable prices in a supermarket. Track the amount of produce harvested in your garden and use the market

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense	1.1, 1.2, 1.3	1.1, 1.2	5.1, 5.2, 6.1	2.7, 2.8, 3.3, 3.4	1.9, 2.1, 2.2, 3.1, 3.2, 3.3, 3.4	1.5, 2.1	1.4
Algebra & Functions			1.1, 1.2, 1.3	2.1, 2.2			2.1
Statistics, Data Analysis & Probability		1.1, 1.2	1.1, 1.2, 1.3, 1.4		1.1, 1.2, 1.3, 2.1, 2.2	1.1, 1.2, 1.3, 1.4, 1.5	1.1, 1.2, 1.3, 1.4
Mathematical Reasoning						2.1, 2.2, 2.3	

Count the number of seeds planted and the number of seeds that sprout and calculate the germination rate.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense	1.1, 1.2, 1.3, 2.1	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1	1.1, 2.1, 2.2, 2.3	1.1, 1.2			
Algebra & Functions							2.3
Statistics, Data Analysis & Probability			1.1, 1.2, 1.3, 1.4		1.1, 1.2, 1.3, 2.1, 2.2	1.1	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5
Mathematical Reasoning				2.1	2.1, 2.2		

Measure the height of a group of plants and determine the mean, median, and mode.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense				1.1			
Statistics, Data Analysis & Probability			1.1, 1.2, 1.3, 1.4		1.2	1.1	1.4

13 - Mathematics



14 - Mathematics

Calculate serving sizes of different fruits and vegetables using common cooking supplies.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense			4.1, 4.2, 4.3	3.1, 3.2, 3.3, 3.4,	1.9	1.5, 2.3	1.4, 2.1, 2.2, 2.3, 2.4
Algebra & Functions							2.1
Measurement & Geometry	1.1	1.1		1.1, 1.2, 1.4		1.3, 1.4	1.3

Make a recipe that uses fruits and vegetables from the garden and requires various measuring techniques.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Number Sense	1.0		4.1	3.1		1.2, 1.5, 2.1, 2.2, 2.3, 2.4, 2.5	2.1, 2.2, 2.3, 2.4
Algebra & Functions							2.1
Measurement & Geometry	1.1	1.1	1.0, 1.1	1.0, 1.1		1.3, 1.4	1.3
Mathematical Reasoning		1.1	1.0, 1.1	1.0	1.1, 1.2		

History-Social Science

Research and report on cultural or ethnic differences in food consumption and gardening practices.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	6.3	2.4		3.1		1.1, 8.4	1.1

Research agricultural history and create a timeline of important events.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	6.3	4.3	4.1	1.2, 2.2, 3.1, 3.2	2.5, 2.6, 4.2, 4.3, 4.5, 4.6, 4.7	1.1, 1.2, 1.3, 2.3, 3.2, 2.3, 3.2, 8.4	1.1, 1.2, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7

Visit some local farms and interview farmers about choice of crops, growing practices, marketing, and farm history.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	4.0	6.2	2.4, 4.2, 4.3	1.2, 3.3, 5.1	4.6		



16 - History-Social Science

Study the contribution of Native American foods and other cultures' foods to our history and diet. Grow samples in the school garden.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	6.2, 6.3	5.2	1.2		2.1	1.1, 3.2, 4.1	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7

Research the histories of classroom garden plants. Discover where they originated, the impact they've had on our diets, and how today's varieties differ from the original plants. Locate their origin on a map and then trace their movement around the world.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	6.3	2.1, 2.4	4.1, 5.0	2.2, 3.1	2.1	1.1, 1.2, 1.3, 3.2, 8.0	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7

Use the Thanksgiving holiday to explore meals throughout history and the different crops grown and harvested at that time of year.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	6.1	3.2, 5.2	1.1, 1.2, 4.1	2.1, 3.1	2.1, 2.5, 4.3	3.0, 8.0	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7

Complete a site analysis of the school garden and create a garden map noting important features, including a north arrow.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	4.3, 4.4, 4.5	2.3	2.1	1.0	1.5		

Trace the path of a fruit or vegetable from the field to the table.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science		6.2	4.1	5.2	4.6		

Use the classroom garden to complement a study of the influence of climate on food production.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	4.0	2.4	4.1	2.2, 5.1,	1.3	1.1, 4.1, 8.4	1.2, 1.3

As a class, develop garden rules and then vote on them.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
History-Social Science	1.1	1.1, 1.2	3.1	4.1		7.3	

17 - History-Social Science



English-Language Arts

Keep daily garden journals documenting observations, weather conditions, and classroom activities.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Writing	1.0	1.0, 2.2	1.1, 1.2	1.1, 1.2, 2.2	1.1, 1.2, 1.3, 1.4, 2.3	1.2, 2.3	1.1, 1.2, 1.3, 2.2
Written & Oral English Language Conventions (WOELC)	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Research the growing habits of the school garden plants using the Internet and reference material. Create a planting schedule based on the information.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Writing		1.0, 2.2	1.6	1.0, 2.2	1.0, 2.3	1.0, 2.3	1.0, 2.2, 2.3
Reading		1.0, 2.0	1.0, 2.0	1.0, 2.0	1.0, 2.0	1.0, 2.0	1.0, 2.0
WOELC		1.0	1.0	1.0	1.0	1.0	1.0

Write letters to local merchants explaining the school gardening projects and asking for donations.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Writing				1.0, 2.3		1.0, 2.4	
WOELC				1.0		1.0	

Write thank you notes to volunteers and garden sponsors.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Writing			1.0, 2.2	1.0, 2.3			
WOELC			1.0	1.0			



Write step-by-step instructions for common garden activities.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Writing		1.0, 2.1	1.1, 1.2, 2.1	1.1, 1.2, 2.2	1.1, 1.3, 1.4		
WOELC		1.0	1.0	1.0	1.0		

Follow written instructions to perform a garden task like planting seeds.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Reading Comprehension		2.3	2.8	2.7	2.7		

Read books and stories about plants and gardens.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Reading	1.0, 2.0, 3.0	1.0, 2.0, 3.1	1.0, 2.0, 3.2	1.0, 2.0, 3.3	1.0, 2.0, 3.4	1.0, 2.0, 3.5	

Write a research paper on a favorite plant, including source citation.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Writing		1.0, 2.2	1.0	1.0	1.0, 2.3	1.0, 2.3	1.0, 2.3
WOELC	1.0	1.0	1.0	1.0	1.0	1.0	

21 - English-Language Arts



22 - English-Language Arts

Prepare and deliver a presentation about the garden for other students, teachers, and parents.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
WOELC	1.1.	1.1,1.2, 1.3	1.3	1.2, 1.3, 1.4	1.3		
Listening & Speaking	2.1, 2.2, 2.3	1.4, 1.5, 2.0	1.5, 1.6, 1.7, 1.8, 1.9, 2.0	1.5, 1.6, 1.7, 1.8, 1.9, 2.0	1.5, 1.6, 1.7, 1.8, 1.9, 2.0	1.4, 1.5, 1.6, 2.0	1.4, 1.5, 1.6, 2.0

Learn about the origins of scientific plant names.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Reading					1.2, 1.3, 1.4, 2.0	1.2, 1.4, 2.0	1.3, 2.0

Read a garden magazine article highlighting a plant and distinguish between the facts and opinion presented by the writer.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Reading			2.1, 2.5		2.1, 2.6	2.0	2.0

Research the nutritional value of your favorite garden vegetable and then write a script for a 60-second advertisement designed to get more people to grow and eat it.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Reading			2.1, 2.3, 2.5, 2.7	2.1, 2.5	2.0	2.0	2.0
Writing			1.0	1.0	1.0	1.0, 2.4	1.0, 2.5
WOELC			1.0	1.0	1.0	1.0	1.0

Visual and Performing Arts

Create paintings and drawings of garden plants.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts		1.1, 2.2, 2.6, 2.7, 2.8, 4.1, 4.3, 4.4, 5.3	1.1, 1.2, 1.3, 2.2, 2.4, 2.5, 4.3, 5.4	1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 4.2	2.1, 2.7, 2.8, 4.3	1.1, 2.1, 2.4, 2.6, 2.7, 4.4, 5.2	1.1, 1.4, 2.2, 2.3, 2.4, 4.4

Paint a class garden mural to hang in the hallway for parents' night.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.4, 4.1, 4.3, 4.4	1.1, 1.3, 2.2, 2.4, 2.7, 2.8, 3.2, 4.1, 4.3	1.2, 1.3, 2.4, 3.3, 4.1, 4.3	1.2, 1.3, 2.2, 2.3	1.4, 2.1, 2.7, 2.8, 3.1	2.6, 2.7, 4.1, 4.3	1.1, 2.1, 2.2, 2.3, 5.5

Make a seed mosaic.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	1.1, 1.2, 2.1, 2.2, 2.6, 4.1, 4.2, 4.3, 4.4	2.1, 2.3, 2.5, 2.7, 4.1, 4.3, 4.4, 5.2	1.1, 1.3, 2.5, 4.1, 4.3, 4.4, 5.1, 5.2	1.1, 1.5, 4.2	1.5, 2.7, 4.3	1.1, 2.1, 4.4	1.1, 1.3, 2.5

Create a color wheel collage using pictures from old seed catalogs.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.1, 2.3, 2.6, 4.1, 4.3, 4.4	1.3, 4.1, 4.3	1.3, 4.3, 4.4	1.5	1.3	1.1, 2.4, 4.4	2.5



24 - Visual and Performing Arts

Make musical instruments from gourds and learn how to play them.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre	2.3, 2.4, 3.3, 5.2	1.3, 2.3, 2.4	1.5, 2.3, 2.4	1.1, 1.5, 2.3, 3.3, 5.2	2.3, 3.3	1.3, 2.2, 2.3, 3.3	1.5, 2.3

Make prints using paint and stamps made from various plant parts.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.1, 3.1, 4.1, 5.4	1.2, 4.3, 4.4	1.3, 2.1, 2.4, 4.1, 4.3, 5.4	1.5, 2.6, 1.5	4.5	2.4, 4.4	2.3, 2.4

Create and perform a garden-inspired dance expressing the growth of a seed or the opening of a flower bud.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre	1.3, 1.4, 2.1, 2.2	1.1, 1.2, 2.1, 2.3, 2.7, 2.8, 4.3, 5.1, 5.2	1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.6, 2.7, 4.1, 5.1, 5.3, 5.4	1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.6, 2.7	1.1, 1.3, 2.1, 2.3, 2.6, 2.7, 4.1, 4.4, 5.1,	1.1, 2.1, 2.2, 2.4, 2.6,	1.1, 1.3, 1.5, 2.1, 2.2, 2.5, 2.8, 4.3

Pantomime various gardening tasks (transplanting, fertilizing, sowing seeds, pollinating).

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre	2.1, 2.2, 4.1, 5.1, 5.2,	1.1, 2.1, 2.2, 3.3, 4.1, 5.1, 5.2,	4.1, 4.2, 5.1,	2.1	2.1	2.3	2.1

Learn a collection of songs that relate to food, gardens, and the environment.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre	2.2, 2.3, 3.1, 3.4, 4.1, 4.2, 5.1	1.1, 1.2, 2.1, 2.2, 2.4, 3.1, 3.2, 4.1,	1.3, 1.4, 2.1, 2.2, 2.3, 3.1, 3.2, 4.2	1.1, 1.3, 1.6, 2.1, 2.2, 3.2	1.2, 1.3, 1.6, 2.1, 3.1, 3.4, 3.5	1.3, 2.1, 2.3, 3.1, 5.1	1.3, 1.4, 1.5, 2.2, 3.1, 3.3

Draw a dream garden.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.4, 4.1	2.6, 3.3, 4.1, 4.2, 4.4	2.1, 2.2, 3.1, 4.1, 4.3	1.5, 2.1, 2.2, 2.3, 4.2	1.5, 2.1,, 2.8, 3.1, 4.1, 4.3	1.1, 1.3, 2.6, 2.7, 4.4, 5.3	1.1, 1.3, 2.1, 2.3, 2.4, 4.4

Listen to the music of composers inspired by nature.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre	1.2, 3.1	3.1, 3.3, 3.4, 4.2, 5.1	1.5, 3.3, 4.3, 5.1	1.3, 1.6, 3.1, 4.3, 5.1	1.6, 2.1, 3.3, 3.2, 5.1	1.4, 1.5, 2.1, 3.1, 3.2, 3.4, 4.1	

Build clay or tissue paper models of flowers.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.7	2.1, 2.3, 2.5, 2.8	2.2	2.4, 2.5	2.5		

25 - Visual and Performing Arts



26 - Visual and Performing Arts

Use leaves to make crayon rubbings or fossils in clay.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.1	2.1, 2.3, 2.7, 2.8	2.1, 2.3, 2.4, 2.5	2.5			

Using a movie camera with single-frame capability, make a time-lapse film of a plant growing.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre						2.3	2.6

Create a skit about food safety.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Theatre	2.1, 2.3	2.2	2.1, 2.3, 2.4	2.0	2.1, 2.3	2.0	2.0

Paint a classroom mural using samples of different soils as the medium.

	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Visual Arts	2.0	2.1, 2.2, 2.4, 2.7, 2.8	2.0	2.1, 2.2, 2.3, 2.4	2.1, 2.2, 2.5, 2.6, 2.7, 2.8	2.1, 2.2, 2.4, 2.6, 2.7	2.1, 2.2, 2.3, 2.4, 2.5

California Foundation for Agriculture for the Classroom

The California Foundation for Agriculture in the Classroom (CFAITC) is a 501(c)(3) nonprofit organization that provides educators with quality free and low-cost materials, training and information to promote student understanding of California agriculture. For more information about the Foundation and its resources for educators, visit www.cfaitc.org.

California Association of Nurseries and Garden Centers

The California Association of Nurseries and Garden Centers (CANGC) is a professional organization dedicated to the promotion and advancement of the nursery industry for its members and the public it serves. www.cangc.org

California School Garden Network

The California School Garden Network (CSGN) is a 501(c)(3) organization whose members represent a variety of state agencies, private companies, educational institutions, and nonprofit organizations, all dedicated to the mission of creating and sustaining gardens in every willing school in California. The Network serves as a central organization to distribute school garden resources and support throughout the state. www.csgn.org

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