

Meeting the California Science Standards with the Growing Classroom Curriculum					
CALIFORNIA SCIENCE STANDARDS - Second Grade			THE GROWING CLASSROOM		
CSS Gr	No.	Sct.	CSS Description	TGC UNIT	Lesson Name (Page)
2	1		<i>The motion of objects can be observed and measured. As a basis for understanding this concept, students know:</i>		
2	1	a.	The position of an object can be described by locating it relative to another object or the background.		
2	1	b.	An object's motion can be described by recording the change in its position over time.		
2	1	c.	The way to change how something is moving is to give it a push or a pull. The size of the change is related to the strength, or the amount of "force," of the push or pull.		
2	1	d.	Tools and machines are used to apply pushes and pulls (forces) to make things move.		
2	1	e.	Objects near the Earth fall to the ground unless something holds them up.		
2	1	f.	Magnets can be used to make some objects move without being touched.		
2	1	g.	Sound is made by vibrating objects and can be described by its pitch and volume.		
2	2		<i>Plants and animals have predictable life cycles. As a basis for understanding this concept, students know:</i>		
2	2	a.	Organisms reproduce offspring of their own kind. The offspring resemble their parents and each other.		
2	2	b.	The sequential stages of life cycles are different for different animals, for example butterflies, frogs, and mice.	Garden Creatures	The Butterfly Flutter By (261)
2	2	c.	Many characteristics of an organism are inherited from the parents. Some characteristics are caused by, or influenced by, the environment.		
2	2	d.	There is variation among individuals of one kind within a population.		
2	2	e.	The germination, growth, and development of plants can be affected by light, gravity, touch, or environmental stress.	Growing	Which Way Did It Grow? (136)

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2	2	e.	The germination, growth, and development of plants can be affected by light, gravity, touch, or environmental stress (continued).	Growing	Room to Live (151)
				Growing Living Laboratory	Seed to Earth, Seed to Earth, Do You Read Me? (153)
				Growing Living Laboratory	Water We Doing? (170)
				Growing Living Laboratory	Weeding, Writing, and Arithmetic (175)
				Cycles and Changes	The Seasons of a Tree (183)
				Garden Ecology	I Need My Space (247)
2	2	f.	In plants, flowers and fruits are associated with reproduction.		
2	3		<i>Earth is made of materials that have distinct properties and provide resources for human activities. As a basis for understanding this concept, students know:</i>		
2	3	a.	How to compare the physical properties of different kinds of rocks.		
2	3	b.	Smaller rocks come from the breakage and weathering of larger rocks.		
2	3	c.	Soil is made partly from weathered rock and partly from organic materials, and that soils differ in their color, texture, capacity to retain water, and ability to support the growth of many kinds of plants.	The Living Earth	Space Travelers (81)
				The Living Earth	The Nitty-Gritty (85)
				The Living Earth	Living in the Soil (87)
				The Living Earth	To Dig or Not to Dig: That is the Question (91)
				The Living Earth	Soil Doctors (96)
				The Living Earth	Splash (106)
				The Living Earth	A Day at the Races (108)
				Growing Living Laboratory	Seed to Earth, Seed to Earth, Do You Read Me? (153)
				Growing Living Laboratory	What's in a Name? (173)
				Growing Living Laboratory	So What? Sow Seeds! (162)
				Cycles and Changes	You Look Different from the Last Time I Saw You (197)
				Cycles and Changes	Compost Bags (200)

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2	3	d.	Fossils provide evidence about the plants and animals that lived long ago, and scientists learn about the past history of Earth by studying fossils.		
2	3	e.	Rock, water, plants and soil provide many resources including food, fuel, and building materials that humans use.	Growing	Bioburgers (116)
2	4		Scientific progress is made by asking meaningful questions and students should develop their own questions and perform investigations. Students will:		
2	4	a.	Make predictions based on patterns of observation rather than random guessing.	Growing	Room to Live (151)
				The Living Earth	What Good Is Compost? (98)
				The Living Earth	A Warm Place to Grow (103)
				The Living Earth	Splash (106)
				Growing	Seed Power (125)
				Growing	Seed to Earth, Seed to Earth, Do You Read Me? (153)
				Garden Ecology	Magic Spots (238)
				Garden Ecology	Companion Planting (243)
				Garden Creatures	The Butterfly Flutter By (261)
				Climate	Temperature Hunt (287)
2	4	b.	Measure length, weight, temperature, and liquid volume with appropriate tools and express measurements in standard and non-standard units.	The Living Earth	To Dig or Not to Dig: That is the Question (91)
				Living Laboratory	Water We Doing? (170)
				Garden Ecology	Companion Planting (243)
				Growing	Room to Live (151)
				Garden Creatures	My Friend Tummy-Foot (273)
				Climate	Temperature Hunt (287)

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2	4	c.	Compare and sort common objects based on two or more physical attributes (including color, shape, texture, size, weight)	The Living Earth	Living in the Soil (87)
				The Living Earth	To Dig or Not to Dig: That is the Question (91)
				The Living Earth	Soil Doctors (96)
				The Living Earth	What Good Is Compost? (98)
				The Living Earth	The Matchmaker (100)
				Living Laboratory	Water We Doing? (170)
				Living Laboratory	What's in a Name? (173)
				Cycles and Changes	Collector's Corner (189)
2	4	d.	Write or draw descriptions of a sequence of steps, events, and observations.	The Living Earth	Sensual Soil (83)
				The Living Earth	To Dig or Not to Dig: That is the Question (91)
				Growing	Seedy Character (118)
				Growing	Let's Get to the Root of This (120)
				Growing	Seed Power (125)
				Growing	Growing, Growing, Gone (129)
				Growing	Glass Seed Sandwich (131)
				Growing	Run, Root, Run (133)
				Growing	Which Way Did It Grow? (136)
				Growing	Room to Live (151)
				Growing	Seed to Earth, Seed to Earth, Do You Read Me? (153)
				Living Laboratory	Water We Doing? (170)

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2	4	d.	Write or draw descriptions of a sequence of steps, events, and observations (continued).	Cycles and Changes	The Seasons of a Tree (183)
				Cycles and Changes	You Look Different from the Last Time I Saw You (197)
				Cycles and Changes	Bring in the Clean-Up Crew (199)
				Garden Ecology	Flower Power: Part One (233)
				Garden Ecology	Magic Spots (238)
				Garden Ecology	I Need My Space (247)
				Garden Creatures	The Butterfly Flutter By (261)
				Garden Creatures	My Friend Tummy-Foot (273)
				Garden Creatures	Following the Thread (277)
2	4	e.	Construct bar graphs to record data using appropriately labeled axes.	The Living Earth	To Dig or Not to Dig: That is the Question (91)
				Living Laboratory	What's in a Name? (173)
				Garden Ecology	Companion Planting (243)
2	4	f.	Write or draw descriptions of a sequence of steps, events, and observations, and include the use of magnifiers or microscopes to extend senses.	We Are All Scientists	Little Munchkins (71)
				The Living Earth	Space Travelers (81)
				The Living Earth	The Matchmaker (100)
				Growing Garden Creatures	Seedy Character (118)
					My Friend Tummy-Foot (273)
2	4	g.	Follow verbal instructions for a scientific investigation.	The Living Earth	To Dig or Not to Dig: That is the Question (91)

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2	4	g.	Follow verbal instructions for a scientific investigation (continued).	Growing	It's Getting Stuffy in Here (126)
				Growing	Which Way Did It Grow? (136)
				Growing	Room to Live (151)
				Living Laboratory	Water We Doing (170)
				Growing	Seed to Earth, Seed to Earth, Do You Read Me? (153)
				Cycles and Changes	You Look Different from the Last Time I Saw You (197)
				Cycles and Changes	Bring in the Clean-Up Crew (199)
				Cycles and Changes	Compost Bags (200)
				Garden Ecology	Companion Planting (243)
				Garden Ecology	I Need My Space (247)