

Meeting the California Science Standards with the Growing Classroom Curriculum					
CALIFORNIA SCIENCE STANDARDS - Fourth Grade			The Growing Classroom		
CSS Grd	No.	Sect.	CSS Description	TGC UNIT	Lesson Name (Page)
4	1		Electricity and magnetism are related effects that have many useful applications in everyday life.		
			How to design and build simple series and parallel circuits using components such as wires, batteries, and bulbs.		
4	1	a.			
4	1	b.	How to build a simple compass and use it to detect magnetic effects, including Earth's magnetic field.		
4	1	c.	Electric currents produce magnetic fields and how to build a simple electromagnet.		
4	1	d.	The role of electromagnets in the construction of electric motors, electric generators, and simple devices such as doorbells and ear phones.		
4	1	e.	Electrically charged objects attract or repel each other.		
4	1	f.	Magnets have two poles, labeled north and south, and like poles repel each other while unlike poles attract each other.		
4	1	g.	Electrical energy can be converted to heat, light, and motion.		
4	2		All organisms need energy and matter to live and grow.		
4	2	a.	Plants are the primary source of matter and energy entering most food chains.	Interdependence	I Eat the Sun (216)
4	2	b.	Producers and consumers (herbivores, carnivores, omnivores, and decomposers) are related in food chains and food webs, and may compete with each other for resources in an ecosystem.	Interdependence	I Eat the Sun (216)
				Interdependence	You Are What You Eat (220)
4	2	c.	Decomposers, including many fungi, insects, and microorganisms, recycle matter from dead plants and animals.	Cycles and Changes	Dr. Jekyll and Mr. Hyde (193)

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4	2	c.	Decomposers, including many fungi, insects, and microorganisms, recycle matter from dead plants and animals (continued).	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)
				Interdependence	You Are What You Eat (220)
4	3		Living organisms depend on one another and on their environment for survival.		
4	3	a.	Ecosystems can be characterized in terms of their living and nonliving components.		
4	3	b.	For any particular environment, some kinds of plants and animals survive well, some survive less well, and some cannot survive at all.	The Living Earth	What Good is Compost? (98)
				The Living Earth	A Warm Place to Grow (103)
4	3	c.	Many plants depend on animals for pollination and seed dispersal, while animals depend on plants for food and shelter.	Garden Ecology	Flower Power: Part Two (235)
				Garden Ecology	Under the Big Top (251)
4	3	d.	Most microorganisms do not cause disease and many are beneficial.	The Living Earth	The Matchmaker (100)
4	4		The properties of rocks and minerals reflect the processes that formed them.		
4	4	a.	How to differentiate among igneous, sedimentary, and metamorphic rocks by their properties and methods of formation (the rock cycle).		
4	4	b.	How to identify common rock-forming minerals (including quartz, calcite, feldspar, mica, and hornblende) and ore minerals using a table of diagnostic properties.		

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4	5		<i>Waves, wind, water, and ice shape and reshape the Earth's land surface.</i>		
4	5	a.	Some changes in the Earth are due to slow processes, such as erosion, and some changes are due to rapid processes, such as landslides, volcanic eruptions, and earthquakes.	The Living Earth	Splash (106)
				The Living Earth	A Day at the Races (108)
4	5	b.	Natural processes, including freezing/thawing and growth of roots, cause rocks to break down into smaller pieces.		
4	5	c.	Formulate predictions and justify predictions based on cause and effect relationships.	Garden Ecology	Natural Defense (249)
4	5	d.	Conduct multiple trials to test a prediction and draw conclusions about the relationships between results and predictions.	The Living Earth	A Warm Place to Grow (103)
4	5	e.	Construct and interpret graphs from measurements.	The Living Earth	What Good is Compost? (98)
				The Living Earth	A Warm Place to Grow (103)
				The Living Earth	Splash (106)
4	5	f.	Follow a set of written instructions for a scientific investigation.	Garden Creatures	The Great and Powerful Worm (279)