This document outlines the academic goals, the activities and materials used in the Second Grade class in order to achieve high academic success. There is a great deal of overlap in the standards within the activities and within the core areas, thus, standards addressed repeatedly throughout the year.

Time period	Standard	Resources (unit in textbook, learning center, recurring activity, other)	Internet/Media/ other resource
Weeks 3_ to _10	(1) Scientific investigation and reasoning. The student conducts classroom and outdoor investigations following home and school safety procedures. The student is		
	expected to:	The short desired in 19	
	(A) identify and demonstrate safe practices as described in the Texas Safety Standards during classroom and outdoor investigations, including wearing safety goggles, washing hands, and using materials appropriately;	Teach and reinforce in all science lessons	
	(B) describe the importance of safe practices; and	Same as above	
	(C) identify and demonstrate how to use, conserve, and dispose of natural resources and materials such as conserving water and reuse or recycling of paper, plastic, and metal.		Brain pop jr.

Weeks	(2) Scientific		
_10 to	investigation		
15	and reasoning.		
10_	The student		
	develops		
	abilities		
	necessary to do		
	scientific inquiry		
	in classroom and		
	outdoor		
	investigations.		
	The student is		
	expected to:		
	(A) ask	Record in weekly science	
	questions about	journals	
	organisms,	, jour nuis	
	objects, and		
	events during		
	observations and		
	investigations;		
	(B) plan and	Weekly science	
	conduct	journals/observations on	
	descriptive	growth. For example, plants,	
	investigations	molds, sprouts, etc.	
	such as how	morus, sprouts, etc.	
	organisms grow;		
	(C) collect data	Weekly science journals/units	
	from	on various kinds of growth. For	
	observations	example, plant unit,	
	using simple	example, plant anti,	
	equipment such		
	as hand lenses,		
	primary		
	balances,		
	thermometers,		
	and non-		
	standard		
	measurement		
	tools;		
	(D) record and	Weekly science journal	
	organize data	observations	
	using pictures,		
	numbers, and		
	words;		
	(E) communicate	Weekly presentation of	
	observations and	journals	
	justify	, , , , , , , , , , , , , , , , , , , ,	
	explanations		
	using student-		
	asing stauciit		

	generated data from simple descriptive investigations; and (F) compare results of investigations with what students and scientists know about the world.	Internet search engine on scientific facts for kids	
Weeks _10 to _20_	(3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:		
	(A) identify and explain a problem in his/her own words and propose a task and solution for the problem such as lack of water in a habitat;	Brainstorm scientific problems that relate to us. For example, litter, and brainstorm solutions and come up with a plan to do our part.	Brain pop jr.
	(B) make predictions based on observable patterns; and	View charts and make predictions	
	(C) identify what a scientist is and explore what different scientists do.	Discuss what scientists do and different kinds of scientists and different jobs available within the science field.	http://science.discovery.com/

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Weeks	(4) Scientific		
10 to	investigation and reasoning.		
20	The student uses		
20	age-appropriate		
	tools and models		
	to investigate		
	the natural		
	world. The		
	student is		
	expected to:		
	(A) collect,	Use tools available to record,	
	record, and	collect, and measure various	
	compare	scientific data	
	information	Scientific data	
	using tools,		
	including		
	computers, hand		
	lenses, rulers,		
	primary		
	balances, plastic		
	beakers,		
	magnets,		
	collecting nets,		
	notebooks, and		
	safety goggles;		
	timing devices,		
	including clocks		
	and		
	stopwatches;		
	weather		
	instruments		
	such as		
	thermometers,		
	wind vanes, and		
	rain gauges; and materials to		
	support		
	observations of		
	habitats of		
	organisms such		
	as terrariums		
	and aquariums;		
	and		
	(B) measure and		
	compare		
	organisms and		
	objects using		
	non-standard		
	1	1	

	units that approximate		
	metric units.		
Weeks _20 to25	(5) Matter and energy. The student knows that matter has physical properties and those properties determine how it is described, classified, changed, and used. The student is expected to:		
	(A) classify	Identify and discuss the	Brain pop jr.
	matter by physical properties, including shape, relative mass, relative temperature, texture, flexibility, and whether material is a solid or liquid;	physical properties of matter	
	(B) compare changes in materials caused by heating and cooling;	Demonstration on physical changes caused by heating and cooling.	
	(C) demonstrate that things can be done to materials to change their physical properties such as cutting, folding, sanding, and melting; and	Class demonstration using different materials	http://science.discovery.com/
	(D) combine materials that when put together can do	Experiments using various materials	http://science.discovery.com/

Weeks25 to30_	things that they cannot do by themselves such as building a tower or a bridge and justify the selection of those materials based on their physical properties. (6) Force, motion, and energy. The student knows that forces cause change and energy exists in many forms. The		
	student is		
	expected to: (A) investigate	Perform various experiments	http://science.discovery.com/
	the effects on an object by increasing or decreasing amounts of light, heat, and sound energy such as how the color of an object appears different in dimmer light or how heat melts butter;		http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml
	(B) observe and identify how magnets are used in everyday life;	Internet and hands on study of magnets	
	(C) trace the changes in the position of an object over time such as a cup rolling on the floor and a car	Experiments on objects in motion	

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	rolling down a		
	ramp; and		
	(D) compare	Same as above	
	patterns of		
	movement of		
	objects such as		
	sliding, rolling,		
	and spinning.		
Weeks	(7) Earth and		
25_	space. The		
to	student knows		
	that the natural		
_30	world includes		
	earth materials.		
	The student is		
	expected to:		
	(A) observe and	Collect and make observations	
	describe rocks		
	by size, texture,		
	and color;		
	(B) identify and	Internet research	
	compare the		
	properties of		
	natural sources		
	of freshwater		
	and saltwater;		
	and		
	(C) distinguish	discussion	www.proteacher.org
	between natural	uiscussion	www.proteacher.org
	and manmade		
XA7 1	resources.		
Weeks	(8) Earth and		
1 to	space. The		
_33	student knows		
	that there are		
	recognizable		
	patterns in the		
	natural world		
	and among		
	objects in the		
	sky. The student		
	is expected to:		
	(A) measure,	Daily calendar	http://video.nationalgeographic.com
	record, and	activities/weather observations	/video/kids/science-space-kids/
	graph weather	activities, weather observations	,
	information,		
	including		
	_		
	temperature,		
	wind conditions,		

	precipitation,		
	and cloud		
	coverage, in		
	order to identify		
	patterns in the		
	data;		
	(B) identify the	Daily calendar activities	Internet weather forcast
	importance of		
	weather and		
	seasonal		
	information to		
	make choices in		
	clothing,		
	activities, and		
	transportation;		
	(C) explore the	Classroom experiment with	
	processes in the	evaporation/condensation	
	water cycle,	oraporation, contaction	
	including		
	evaporation,		
	condensation,		
	and		
	precipitation, as		
	connected to		
	weather		
	conditions; and		
		Observe, discuss, and record	
	(D) observe, describe, and	observe, discuss, and record	
	record patterns		
	of objects in the		
	sky, including		
	_		
	the appearance		
VA7 - 1	of the Moon.		
Weeks	(9) Organisms		
25_	and		
to	environments.		
30_	The student		
	knows that living		
	organisms have		
	basic needs that		
	must be met for		
	them to survive		
	within their		
	environment.		
	The student is		
	expected to:		
	(A) identify the	Field trip to farm	Brain pop jr.
	basic needs of		
	plants and		

	animals;		
	(B) identify		Brain pop jr
	factors in the		Drain pop ji
	environment,		
	including		
	temperature and		
	precipitation,		
	that affect		
	growth and		
	behavior such as		
	migration,		
	hibernation, and		
	dormancy of		
	living things; and		
	(C) compare and		Brain pop jr
	give examples of		
	the ways living		
	organisms		
	depend on each		
	other and on		
	their		
	environments		
	such as food		
	chains within a		
	garden, park,		
	beach, lake, and		
	wooded area.		
Weeks	(10) Organisms		
_30-	and		
33_ to	environments.		
33 10	The student		
	knows that		
	organisms		
	resemble their		
	parents and have structures and		
	processes that		
	help them		
	survive within		
	their		
	environments.		
	The student is		
	expected to:		
	(A) observe,	Fieldtrip to farm/ classroom	
	record, and	pet fish observation	
	compare how		
	.1 1 1 1		
	the physical		
	characteristics and behaviors of		

animals help them meet their basic needs such as fins help fish move and balance in the water;		
(B) observe, record, and compare how the physical characteristics of plants help them meet their basic needs such as stems carry water throughout the plant; and	Plant seeds and care for and watch/record growth	Brain pop jr.
(C) investigate and record some of the unique stages that insects undergo during their life cycle.	Discuss/collect/observe/record various insects	Brainpop jr. Superteacher.com