## Science TEKS Verification Document Grade 4

			. et a			o nd							
			1 <sup>st</sup>	NW		2 <sup>na</sup>	NW		3 <sup>ra</sup> NW		4 <sup>th</sup> N		/
		Intro	1	2	3	4	5	6	7	8	9	10	11
4.1	Scientific investigation and reasoning. The student conducts class					ations,	follow	ing hoi	me and	d schoo	ol safei	ty	
	procedures and environmentally appropriate and ethical practices. The	e stud	ent is e	xpecte	d to:	1	T				1		
	Demonstrate safe practices and the use of safety equipment as												
	described in Texas Education Agency-approved safety standards	-	-	т	-	<u>-</u>	-	-	-	-	-	-	-
4.1A	during classroom and outdoor investigations using safety	Т	Т	•	Т	Т	"	•	•	•		1	Т
	equipment, including safety goggles or chemical splash goggles, as appropriate, and gloves, as appropriate.												
	Make informed choices in the use and conservation of natural												
4 1B	resources and reusing and recycling of materials such as paper,	т	0	т	0	0	т	т	0	0	0	0	0
4.1B 4.2A 4.2A 4.2B 4.2C	aluminum, glass, cans, and plastic.	-	•	•			-	-	•	•		•	•
4.0	Scientific investigation and reasoning. The student uses scientific	practic	es duri	ing labo	bratory	and o	utdoor	invest	igation	s. The	studer	nt is	-
4.2	expected to:			U					•				
	Plan and implement descriptive investigations, including asking well												
4.2A	defined questions, making inferences, and selecting and using	Т	Т	Т	T	Т	Т	Т	Т	Т	Т	Т	Т
	appropriate equipment or technology to answer his/her questions.												<u> </u>
4.05	Collect and record data by observing and measuring, using the	_	-	_	_	- I	-	_	_	_	_	-	-
4.2B	metric system, and using descriptive words and numerals such as	Т	Т	т	Т	'	1	I	•	•		I	Т
	labeled drawings, writing, and concept maps. Construct simple tables, charts, bar graphs, and maps using tools										8     9     10       chool safety     T     T       T     T     T       O     O     O       O     O     O       The student is     T       T     T     T       T     T     T       T     T     T       T     T     T       T     T     T       T     T     T       T     T     T       T     T     T       I     T     T       T     T     T       T     T     T       T     T     T       T     T     T       T     T     T       T     T     O       T     T     O	<u> </u>	
4.2C	and current technology to organize, examine, and evaluate data.	т	Т	Т	Т	Т	Т	Т	т	т	Т	Т	Т
	Analyze data and interpret patterns to construct reasonable							5     6     7     8       ollowing home and school     and school     and school       T     T     T     T       T     T     T     T       T     T     T     T       T     T     O     O       tdoor investigations. The     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T     T     T     T       T					
4.2D	explanations from data that can be observed and measured.	Т	Т	0	T	Т	Т	т	Т	т	Т	Т	Т
4.2E	Perform repeated investigations to increase the reliability of results.	Т	Т	0	Т	Т	Т	Т	0	Т	0	0	0
4.2F	Communicate valid oral and written results supported by data.	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т
4.3	Scientific investigation and reasoning. The student uses critical th	inking a	and sci	entific	oroble	m solv	ing to r	nake il	nforme	d decis	sions.	The stu	udent
4.5	is expected to:				r		1	1			1		
	Analyze, evaluate, and critique scientific explanations by using	_	_	_	_	l _	_	_	_	_	_	_	_
4.3A	evidence, logical reasoning, and experimental and observational	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т
	testing.												<u> </u>
4.3B	Represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy	т	0	0	0	T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   T T T T   Olem solving to make informed decision	т	0	т				
4.30	and size.		0	0			'					U	
1.00	Connect grade-level appropriate science concepts with the history	_			_	-	_	_	_	_	_	_	
4.3C	of science, science careers, and contributions of scientists.	Т	0	0	Т	Т	Т	Т	T	T	T	Т	0

## Science TEKS Verification Document Grade 4

	Cita												
		1 <sup>st</sup> NW			2 <sup>nd</sup>	NW 3 <sup>rd</sup> NW			I		4 <sup>th</sup> NW		
		Intro	1	2	3	4	5	6	7	8	9	10	11
4.4	Scientific investigation and reasoning. The student knows how to a inquiry. The student is expected to:		ariety o						nd mod			-	се
4.4A	Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support observation of habitats of organisms such as terrariums and aquariums.	т	т	т	т	т	т	т	т	т	т	т	т
4.5	<b>Matter and energy.</b> Matter and energy. The student knows that matter matter is classified, changed, and used. The student is expected to:	er has i	measu	rable p	hysica	l prope	erties a	nd tho	se proj	oerties	detern	nine ho	W
4.5A	Measure, compare, and contrast physical properties of matter, including mass, volume, states (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.		т										
4.5B	Compare and contrast a variety of mixtures, including solutions.			Т									
4.6	Force, motion, and energy. The student knows that energy exists in student is expected to:	many	forms a	and ca	n be o	bserve	d in cy	cles, p	atterns	s, and s	system	s. The	
4.6A	Differentiate among forms of energy, including mechanical, sound, electrical, light, and thermal.				т								
4.6B	Differentiate between conductors and insulators of thermal and electrical energy.				т								
4.6C	Demonstrate that electricity travels in a closed path, creating an electrical circuit.				т								
4.6D	Design a descriptive investigation to explore the effect of force on an object such as a push or a pull, gravity, friction, or magnetism.					т							
4.7	Earth and space. The students know that Earth consists of useful res	source	s and it	ts surfa	ice is c	onstar	ntly cha	nging.	The s	tudent	is expe	ected to	o:
4.7A	Examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants. <i>Supporting Standard</i>						т						
4.7B	Observe and identify slow changes to Earth's surface caused by weathering, erosion, and deposition from water, wind, and ice.							т					
4.7C	Identify and classify Earth's renewable resources, including air, plants, water, and animals, and nonrenewable resources, including coal, oil, and natural gas, and the importance of conservation. <i>Supporting Standard</i>						т						
4.8	<b>Earth and space.</b> The student knows that there are recognizable path student is expected to:	terns ir	n the na	atural w	vorld a	nd am	ong the	e Sun,	Earth,	and M	oon sy	stem.	The
4.8A	Measure, record, and predict changes in weather. <b>Supporting Standard</b>								Т				

## Science TEKS Verification Document Grade 4

		1 <sup>st</sup> NW			2 <sup>nd</sup>	NW	3 <sup>rd</sup> NW			4 <sup>th</sup> NW			
		Intro	1	2	3	4	5	6	7	8	9	10	11
4.8B	Describe and illustrate the continuous movement of water above and on the surface of Earth through the water cycle and explain the role of the Sun as a major source of energy in this process. <b>Supporting Standard</b>								т				
4.8C	Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time. <b>Supporting Standard</b>									т			
4.9	<b>Organisms and environments.</b> The student knows and understands their environment. The student is expected to:	s that li	ving oi	ganism	ns with	in an e	cosyst	em int	eract w	vith one	e anoth	ner and	l witl
4.9A	Investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food.										т		
4.9B	Describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the ecosystem affect the food web.										т		
4.10	<b>Organisms and environments.</b> The student knows that organisms u them survive within their environment. The student is expected to:	inderge	o simila	ar life p	rocess	es and	l have	structu	ires an	id beha	viors t	hat he	lp
4.10A	Explore how structures and functions enable organisms to survive in their environment.											Т	
4.10B	Explore and describe examples of traits that are inherited from parents to offspring such as eye color and shapes of leaves and behaviors that are learned such as reading a book and a wolf pack teaching their pups to hunt effectively.											т	
4.10C	Explore, illustrate, and compare life cycles in living organisms such as beetles, crickets, radishes, or lima beans.												Т