

Dhusiaal Duan antias of Matter	Unit	CHECKPOINT			
Physical Properties of Matter		1	2	3	
<b>4.5</b> Matter and energy. The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used.					

Process (Table to Know)	l lait	C	HECKPOINT	
Process (Tools to Know)	Unit	1	2	3
<ul> <li>4.2(A) plan and implement descriptive investigations <sup>(®)</sup></li> <li>4.4(A) collect, record, and analyze information using tools <sup>(®)</sup></li> </ul>				
connected 4.1(A), 4.1(B), 4	.2(E)			

Con	tont	Unit	CHECKPOINT			
Con	lent	Unit	1	2	3	
Prope	rties of Matter					
4.5(A)	measure, compare, and contrast physical properties of matter, including mass, volume, states (solid, liquid, and gas), temperature, magnetism, and the ability to sink or float $^{\textcircled{0}}$					
Mixtu	Mixtures					
4.5(B)	compare and contrast a variety of mixtures, including solutions					

Dro		Unit	CHECKPOINT				
PIO	Cess (Ways to Show)		1	2	3		
4.2(B) 4.2(D) 4.3(B)	collect and record data by observing and measuring analyze data and interpret patterns to construct explanations $^{\textcircled{0}}$ represent the natural world using models $^{\textcircled{0}}$						
	connected 4.2(C), 4.2(F), 4.3(A), 4.3(C)						





N Farma Mation and France	Unit	CHECKPOINT			
>> Force, Motion, and Energy		1	2	3	
<b>4.6 Force, motion, and energy.</b> The student knows that energy exists in many forms and can be observed in cycles, patterns, and systems.					

Droo		l lait	CHECKPOINT				
PIUC	CESS (Tools to Know)	Unit	1	2	3		
4.2(A) 4.4(A)	plan and implement descriptive investigations $\ensuremath{^{(0)}}$ collect, record, and analyze information using tools $\ensuremath{^{(0)}}$						
	connected 4.1(A), 4.1(B), 4.2(E)						

Cont	tont	l leit	C	HECKPOI	NT
Com		Unit	1	2	3
Forms	of Energy				
4.6(A)	differentiate among forms of energy, including mechanical, sound, electrical, light, and thermal				
Electri	cal and Thermal Energy				
4.6(B)	differentiate between conductors and insulators of thermal and electrical energy				
4.6(C)	demonstrate that electricity travels in a closed path, creating an electrical circuit				
Force					
4.6(D)	design a descriptive investigation to explore the effect of force on an object such as a push or a pull, gravity, friction, or magnetism $^{\textcircled{3}}$				

D		11	CHECKPOINT				
	rocess (Ways to Show)	Unit	1	2	3		
4.2 4.2 4.3	(D) analyze data and interpret patterns to construct explanations ®						
	connected 4.2(B), 4.2(F), 4.3(A), 4.3(C)						

>> TEKS clusters typically requiring additional time and focus in the curriculum





Notice Description and Changes to Faith/a Confess	Unit	CHECKPOINT			
>> Natural Resources and Changes to Earth's Surface		1	2	3	
<b>4.7 Earth and space.</b> The student knows that Earth consists of useful resources and its surface is constantly changing.					

	Linit	CHECKPOINT			
Process (Tools to Know)	Unit	1	2	3	
<ul> <li>4.2(A) plan and implement descriptive investigations <sup>(®)</sup></li> <li>4.4(A) collect, record, and analyze information using tools <sup>(®)</sup></li> </ul>					
connected 4	.1(A), 4.1(B), 4.2(E)				

Cont	tont	linit	C	HECKPOIN	ΤI
Com		Unit	1	2	3
Proper	rties of Soil				
4.7(A)*	examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants				
Renew	vable and Nonrenewable Resources				
4.7(C)*	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				
Change	as to Fouth's Suuface				
Change	es to Earth's Surface				
4.7(B)	observe and identify slow changes to Earth's surface caused by weathering, erosion, and deposition from water, wind, and ice $^{\textcircled{0}}$				

Droo		11	CHECKPOINT				
PIUC	CESS (Ways to Show)	Unit	1	2	3		
4.2(D) 4.3(B)	analyze data and interpret patterns to construct explanations $^{\textcircled{0}}$ represent the natural world using models $^{\textcircled{0}}$						
	connected 4.2(B), 4.2(C), 4.2(F), 4.3(A), 4.3(C)						

>> TEKS clusters typically requiring additional time and focus in the curriculum





S. Fouth/a Cualas and Datterns	Unit	CHECKPOINT			
>> Earth's Cycles and Patterns		1	2	3	
<b>4.8 Earth and space.</b> The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system.					

		CHECKPOINT				
Process (Tools to Know)	Unit	1	2	3		
<ul> <li>4.2(A) plan and implement descriptive investigations <sup>(®)</sup></li> <li>4.4(A) collect, record, and analyze information using tools <sup>(®)</sup></li> </ul>						
connected 4.1(A), 4.1(B), 4.2(E)						

Cont	ant	Unit	CHECKPOINT				
Com	ent	Unit	1	2	3		
Weath	er						
4.8(A)*	measure, record, and predict changes in weather						
Water	Cycle						
4.8(B)*	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						
Patter	ıs						
4.8(C)*	collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time ${}^{}$						

Droc		Unit	CHECKPOINT				
PIOC	Cess (Ways to Show)		1	2	3		
4.2(B) 4.2(D) 4.3(B)	collect and record data by observing and measuring analyze data and interpret patterns to construct explanations ${}^{\textcircled{0}}$ represent the natural world using models ${}^{\textcircled{0}}$						
	connected 4.2(C), 4.2(F), 4.3(A), 4.3(C)						

>> TEKS clusters typically requiring additional time and focus in the curriculum





Interactions of Organisms in Fragmetoms	Unit	CHECKPOINT			
Interactions of Organisms in Ecosystems	Unit	1	2	3	
<b>4.9 Organisms and environments.</b> The student knows and understands that living organisms within an ecosystem interact with one another and with their environment.					

	l lait	CHECKPOINT				
Process (Tools to Know)	Unit	1	2	3		
<ul> <li>4.2(A) plan and implement descriptive investigations <sup>®</sup></li> <li>4.4(A) collect, record, and analyze information using tools <sup>®</sup></li> </ul>						
connected 4.1(A), 4.1(B), 4.2(E)						

Con	tont	Unit	CHECKPOINT				
COIL		Unit	1	2	3		
Food V	Vebs						
4.9(B)	describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the ecosystem affect the food web						
4.9(A)	investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food $^{\textcircled{8}}$						

Droc		Unit	CHECKPOINT				
Proc	Cess (Ways to Show)		1	2	3		
4.2(D) 4.3(B)	analyze data and interpret patterns to construct explanations $^{\textcircled{0}}$ represent the natural world using models $^{\textcircled{0}}$						
	connected 4.2(B), 4.2(C), 4.2(F), 4.3(A), 4.3(C)						





<b>0</b> al a m	deutetiens and Debasiens	Unit	CHECKPOINT				
Adap	tations and Behaviors	Unit	1	2	3		
4.10	<b>Organisms and environments.</b> The student knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environments.						

Droc		Linit	CHECKPOINT				
PIOC	ess (Tools to Know)	Unit	1	2	3		
	plan and implement descriptive investigations ${}^{\textcircled{0}}$ collect, record, and analyze information using tools ${}^{\textcircled{0}}$						
	connected 4.1(A), 4.1(B), 4.2(E)						

Conte	nt	Unit	CHECKPOINT				
Conte		Unit	1	2	3		
Adaptati	ons						
4.10(A) e	explore how structures and functions enable organisms to survive in their environment $^{\textcircled{0}}$						
Inherited	d Traits and Learned Behaviors						
e	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						
Life Cycle	es						
• •	explore, illustrate, and compare life cycles in living organisms such as beetles, crickets, radishes, or lima beans						

Droc		Unit	CHECKPOINT				
PIUC	CESS (Ways to Show)		1	2	3		
4.2(D) 4.3(B)	analyze data and interpret patterns to construct explanations $^{\textcircled{0}}$ represent the natural world using models $^{\textcircled{0}}$						
	connected 4.2(B), 4.2(C), 4.2(F), 4.3(A), 4.3(C)						





			Unit	CHECKPOINT			
	PROCESS STANDARDS: SCIENTIFIC INVESTIGATION AND REASONIN	NG		1	2	3	
4.1	The student conducts classroom and outdoor investigations, following home and school safety procedures and environmentally appropriate and ethical practices.	Tools to Know					
4.2	The student uses scientific practices during laboratory and outdoor investigations.						_
4.3	The student uses critical thinking and scientific problem solving to make informed decisions.	Ways to Show					
4.4	The student knows how to use a variety of tools, materials, equipment, and models to conduct science inquiry.						

		11	CHECKPOINT		
TOOLS TO KNOW		Unit	1	2	3
4.1(A)	demonstrate safe practices and the use of safety equipment as described in Texas Education Agency-approved safety standards during classroom and outdoor investigations using safety equipment, including safety goggles or chemical splash goggles, as appropriate, and gloves, as appropriate				
4.1(B)	make informed choices in the use and conservation of natural resources and reusing and recycling of materials such as paper, aluminum, glass, cans, and plastic				
4.2(A)	plan and implement descriptive investigations, including asking well defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions $^{}$				
4.2(E)	perform repeated investigations to increase the reliability of results				
4.4(A)	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 <sup>®</sup>				

		11	CHECKPOINT		
	WAYS TO SHOW	Unit			
4.2(B)	collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps				
4.2(C)	construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data				
4.2(D)	analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured $^{}$				
4.2(F)	communicate valid oral and written results supported by data				
4.3(A)	analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and				





	experimental and observational testing		
4.3(B)	represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy and size $^{}$		
4.3(C)	connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists		

