

>> Dhorical Decompation of Markey	Unit	CHECKPOINT			
>> Physical Properties of Matter	Unit	1	2	3	
<b>3.5 Matter and energy.</b> The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used.					

Process (Table to Know)	Heit	CHECKPOINT			
Process (Tools to Know)	Unit	1	2	3	
3.2(A) plan and implement descriptive investigations (§) 3.4(A) collect, record, and analyze information using tools (§)					
connected 3.1(A), 3.1(B), 3.2(E)					

Cont	tont	Unit	CHECKPOINT			
Conf	lent		1	2	3	
Proper	rties of Matter					
3.5(A)	measure, test, and record physical properties of matter, including temperature, mass, magnetism, and the ability to sink or float $^{\textcircled{3}}$					
3.5(B)	describe and classify samples of matter as solids, liquids, and gases and demonstrate that solids have a definite shape and that liquids and gases take the shape of their container					
3.5(C)*	predict, observe, and record changes in the state of matter caused by heating or cooling such as ice becoming liquid water, condensation forming on the outside of a glass of ice water, or liquid water being heated to the point of becoming water vapor					
Mixtur	Mixtures					
3.5(D)	explore and recognize that a mixture is created when two materials are combined such as gravel and sand or metal and plastic paper clips					

Dr	20000 (W	Unit	CHECKPOINT				
FI	OCESS (Ways to Show)		1	2	3		
3.2( 3.2(	, ,						
	connected 3.2(C), 3.2(F), 3.3(A), 3.3(B), 3.3(C)						

 $<sup>&</sup>gt;> \,$  TEKS clusters typically requiring additional time and focus in the curriculum





	Faura Matter and France.	l lesia	Unit	<b>IECKPOII</b>	NT
>>	Force, Motion, and Energy	Unit	1	2	3
3.6	<b>Force, motion, and energy.</b> The student knows that forces cause change and that energy exists in many forms.				

Process (Table to Kraw)	Heit	CHECKPOINT				
Process (Tools to Know)	Unit	1	2	3		
<ul> <li>3.2(A) plan and implement descriptive investigations (8)</li> <li>3.4(A) collect, record, and analyze information using tools (8)</li> </ul>						
connected 3.1(A), 3.1(B), 3.2(E						

Conf	tont	Unit	CHECK		VT
Com	lent	Unit	1	2	3
Forms	of Energy				
3.6(A)	explore different forms of energy, including mechanical, light, sound, and thermal in everyday life				
Force a	and Motion				
3.6(B)*	demonstrate and observe how position and motion can be changed by pushing and pulling objects such as swings, balls, and wagons $^{\textcircled{3}}$				
3.6(C)	observe forces such as magnetism and gravity acting on objects $^{\textcircled{\$}}$				

Droo	1000 (M) ( O) ( )	Unit	CHECKPOINT				
PIOC	Cess (Ways to Show)	Unit	1	2	3		
3.2(D)	analyze and interpret patterns in data to construct explanations ®						
3.2(F)	communicate valid conclusions supported by data in writing, by drawing pictures, and						
	through verbal discussion						
	connected 3.2(B), 3.2(C), 3.3(A), 3.3(B), 3.3(C)						

 $<sup>&</sup>gt;> \,$  TEKS clusters typically requiring additional time and focus in the curriculum





Natural Bassings and Changes to Fouth/s Confess	Unit	CI	CHECKPOINT		
<ul> <li>Natural Resources and Changes to Earth's Surface</li> <li>3.7 Earth and space. The student knows that Earth consists of natural resources and its surface is constantly changing.</li> </ul>	Offic	1	2	3	
Process (Tools to Know)	Unit	Cl	HECKPOII	NT	

Droc	PACC (Table to Know)	Unit	CHECKPOINT		
PIOC	Cess (Tools to Know)	Unit	1	2	3
3.2(A)	plan and implement descriptive investigations ®				
3.4(A)	collect, record, and analyze information using tools $^{\otimes}$				
	connected 3.1(A), 3.1(B), 3.2(E)				

Conf	tont	Hait	СНЕСКРО		NT
Com	lent	Unit	1	2	3
Soil Fo	rmation				
3.7(A)	explore and record how soils are formed by weathering of rock and the decomposition of plant and animal remains				
Change	es to Earth's Surface				
3.7(B)*	investigate rapid changes in the Earth's surface such as volcanic eruptions, earthquakes, and landslides $^{\textcircled{\$}}$				
	Social Studies Integration 3.3(A) describe similarities and differences in the physical environment, including climate, natural hazards	landforms,	natural re	esources, a	and

Natura	al Resources		
3.7(C)	explore the characteristics of natural resources that make them useful in products and materials such as clothing and furniture and how resources may be conserved		

Process (Many to Obany)	Unit	CHECKPOINT			
Process (Ways to Show)		1	2	3	
<ul> <li>3.2(D) analyze and interpret patterns in data to construct explanations </li> <li>3.3(B) represent the natural world using models </li> </ul>					
connected 3.2(B), 3.2(C), 3.2(F), 3.3(A), 3.3(C	)				





>> Change and Marthau	Unit	CHECKPOINT			
>> Space and Weather		1	2	3	
<b>3.8 Earth and space.</b> The student knows there are recognizable patterns in the natural world and among objects in the sky.					

Process (Tools to Know)		CHECKPOINT				
		1	2	3		
<ul> <li>3.2(A) plan and implement descriptive investigations </li> <li>3.4(A) collect, record, and analyze information using tools </li> </ul>						
connected 3.1(A), 3.1(B), 3.2(E)						

Content		l locia	CHECKPOINT				
		Unit	1	2	3		
Object	s in the Sky						
3.8(B)	describe and illustrate the Sun as a star composed of gases that provides light and thermal energy						
3.8(D)*	identify the planets in Earth's solar system and their position in relation to the Sun						
3.8(C)	construct models that demonstrate the relationship of the Sun, Earth, and Moon, including orbits and positions $^{\textcircled{\$}}$						
Weath	or						
vvcatn	vv catrici						
3.8(A)	observe, measure, record, and compare day-to-day weather changes in different locations at the same time that include air temperature, wind direction, and precipitation						

Droc	ACC (Maria ta Ohana)	Hait		CHECKPOINT				
Process (Ways to Show)		Unit	1	2	3			
3.2(D) 3.3(B)	analyze and interpret patterns in data to construct explanations $^{\textcircled{8}}$ represent the natural world using models $^{\textcircled{9}}$							
	connected 3.2(B), 3.2(C), 3.2(F), 3.3(A), 3.3(C)							

 $<sup>&</sup>gt;> \,$  TEKS clusters typically requiring additional time and focus in the curriculum





Dalatianshina Mithin Fusinan manta	Unit	CHECKPOINT			
Relationships Within Environments		1	2	3	
<b>3.9 Organisms and environments.</b> The student knows and can describe patterns, cycles, systems, and relationships within the environments.					

Process (Tools to Know)		Unit	CHECKPOINT			
		Onit	1	2	3	
3.2(A) plan and implement descri	tive investigations ®					
3.4(A) collect, record, and analyze	information using tools <sup>®</sup>					
	connected 3.1(A	A), 3.1(B), 3.2(E)				

Content		Unit	CI	HECKPOII	NT
Con	Content			2	3
Enviro	Environments and Ecosystems				
3.9(A)*	observe and describe the physical characteristics of environments and how they support populations and communities of plants and animals within an ecosystem $^{\circledR}$				
3.9(C)	describe environmental changes such as floods and droughts where some organisms thrive and others perish or move to new locations				
Food C	Food Chains				
3.9(B)	identify and describe the flow of energy in a food chain and predict how changes in a food chain affect the ecosystem such as removal of frogs from a pond or bees from a field				

Process (Marie to Obern)	Unit	CHECKPOINT				
Process (Ways to Show)		1	2	3		
3.2(D) analyze and interpret patterns in data to construct explanations   3.3(B) represent the natural world using models						
connected 3.2(B), 3.2(C), 3.2(	F), 3.3(A), 3.3(C)					





Adoptations and Dahaviara	Heit	CHECKPOINT			
Adap	Adaptations and Behaviors	Unit	1	2	3
3.10	<b>Organisms and environments.</b> The student knows that organisms undergo similar life processes and have structures that help them survive within their environments.				

Process (Tools to Know)		l lmit	CHECKPOINT				
		Unit	1	2	3		
3.2(A) 3.4(A)	plan and implement descriptive investigations ® collect, record, and analyze information using tools ®						
	connected 3.1(A), 3.1(B), 3.2(E)						

Content		CHECKPOINT			
		1	2	3	
Adaptations					
3.10(A) explore how structures and functions of plants and animals allow them to survive in a particular environment $^{\circledR}$					
Life Cycles					
3.10(B)* investigate and compare how animals and plants undergo a series of orderly changes in their diverse life cycles such as tomato plants, frogs, and lady beetles					

Droc	2000 (M. 1. O. )	Unit	CHECKPOINT			
Process (Ways to Show)		Unit	1	2	3	
3.2(D) 3.3(B)	analyze and interpret patterns in data to construct explanations $^{\textcircled{3}}$ represent the natural world using models $^{\textcircled{3}}$					
	connected 3.2(B), 3.2(C), 3.2(F), 3.3(A), 3.3(C)					





	DROCESS STANDARDS: SCIENTIFIC INVESTIGATION AND REASONIU	NC.	Unit	CHECKPOINT			
	PROCESS STANDARDS: SCIENTIFIC INVESTIGATION AND REASONII	NG	Unit	1	2	3	
3.1	The student conducts classroom and outdoor investigations following home and school safety procedures and environmentally appropriate practices.	Tools to Know					
3.2	The student uses scientific practices during laboratory and outdoor investigations.						
3.3	The student knows that information, critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions.	Ways to Show					
3.4	The student knows how to use a variety of tools and methods to conduct science inquiry.						

	TOOLS TO VNOW	Unit	CHECKPOINT			
TOOLS TO KNOW		Unit	1	2	3	
3.1(A)	demonstrate safe practices as described in the Texas Education Agency-approved safety standards during classroom and outdoor investigations using safety equipment as appropriate, including safety goggles or chemical splash goggles, and gloves					
3.1(B)	make informed choices in the use and conservation of natural resources by recycling or reusing materials such as paper, aluminum cans, and plastics					
3.2(A)	plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world $^{\textcircled{\$}}$					
3.2(E)	demonstrate that repeated investigations may increase the reliability of results					
3.4(A)	collect, record, and analyze information using tools, including cameras, computers, hand lenses, metric rulers, Celsius thermometers, wind vanes, rain gauges, pan balances, graduated cylinders, beakers, spring scales, hot plates, meter sticks, magnets, collecting nets, notebooks, and Sun, Earth, and Moon system models; timing devices; and materials to support observation of habitats of organisms such as terrariums and aquariums					

	WAYS TO SHOW	Unit	CHECKPOINT		
	WAIS TO SHOW				
3.2(B)	collect and record data by observing and measuring using the metric system and recognize differences between observed and measured data				
3.2(C)	construct maps, graphic organizers, simple tables, charts, and bar graphs using tools and current technology to organize, examine, and evaluate measured data				
3.2(D)	analyze and interpret patterns in data to construct reasonable explanations based on evidence from investigations $^{\textcircled{\$}}$				
3.2(F)	communicate valid conclusions supported by data in writing, by drawing pictures, and through verbal discussion				
3.3(A)	analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing				





3.3(	B) represent the natural world using models such as volcanoes or the Sun, Earth, and Moon system and identify their limitations, including size, properties and materials $^{\textcircled{3}}$		
3.3(	<ul> <li>connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists</li> </ul>		

