

Flowants and Commounds	Unit	CHECKPOINT			
Elements and Compounds		1	2	3	
6.5 Matter and energy. The student knows the differences between elements and compounds.					

Process /T-	1- 4- 1/2-2-3	Unit	CHECKPOINT				
Process (Too	ois to know)		1	2	3		
6.2(B) design and	an, and implement comparative investigations $^{\textcircled{3}}$ mplement experimental investigations $^{\textcircled{3}}$ and analyze information using tools $^{\textcircled{3}}$						
	connected 6.1(A), 6.1(B), 6.4(B)						

Con	tont	l loit	CHECKPOINT				
Con	tent	Unit	1	2	3		
Elements and Compounds							
6.5(A)	know that an element is a pure substance represented by a chemical symbol and that a compound is a pure substance represented by a chemical formula						
6.5(B)	recognize that a limited number of the many known elements comprise the largest portion of solid Earth, living matter, oceans, and the atmosphere						
Chemi	cal Change						
6.5(C)	identify the formation of a new substance by using the evidence of a possible chemical change such as production of a gas, change in temperature, production of a precipitate, or color change $^{\textcircled{\$}}$						

Droc	2000 (M. 1 0)	Unit	CHECKPOINT				
PIOC	Cess (Ways to Show)		1	2	3		
6.2(E) 6.3(B)	analyze and formulate explanations, communicate conclusions, and predict trends $^{\textcircled{3}}$ use models to represent the natural world $^{\textcircled{3}}$						
	connected 6.2(C), 6.2(D), 6.3(A), 6.3(C), 6.3(D)						





Name of Matter	Unit	CHECKPOINT			
>> Physical Properties of Matter	Onit	1	2	3	
6.6 Matter and energy. The student knows matter has physical properties that can be used for classification.					

Drococc ((Table to Manua)	Unit	CHECKPOINT			
Process ((Tools to Know)	Unit	1	2	3	
6.2(B) design	ibe, plan, and implement comparative investigations $^{\textcircled{3}}$ n and implement experimental investigations $^{\textcircled{3}}$ it, record, and analyze information using tools $^{\textcircled{3}}$					
	connected 6.1(A), 6.1(B), 6.4(B)					

Conf	tont	Heit	CHECKPOINT			
Com	lent	Unit	1	2	3	
Proper	ties of Matter					
6.6(A)*	compare metals, nonmetals, and metalloids using physical properties such as luster, conductivity, or malleability $^{\textcircled{\$}}$					
6.6(C)	test the physical properties of minerals, including hardness, color, luster, and streak					
Densit	у					
6.6(B)*	calculate density to identify an unknown substance					

Droc	NACC (IAI	Unit	CHECKPOINT			
PIOC	Cess (Ways to Show)	Unit	1	2	3	
6.2(E) 6.3(B)	analyze and formulate explanations, communicate conclusions, and predict trends $^{\textcircled{3}}$ use models to represent the natural world $^{\textcircled{3}}$					
	connected 6.2(C), 6.2(D), 6.3(A), 6.3(C), 6.3(D)					

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





uth/a Dagauraga	Unit	CHECKPOINT				
Earth's Resources	Onit	1	2	3		
6.7 Matter and energy. The student knows that some of Earth's energy resources are available on a nearly perpetual basis, while others can be renewed over a relatively short period of time. Some energy resources, once depleted, are essentially nonrenewable.						

Droo	NOCC (T. 1. (. 1/)	Unit	CHECKPOINT			
PIOC	Cess (Tools to Know)	Unit	1	2	3	
6.2(A) 6.2(B) 6.4(A)	describe, plan, and implement comparative investigations $^{\textcircled{8}}$ design and implement experimental investigations $^{\textcircled{8}}$ collect, record, and analyze information using tools $^{\textcircled{8}}$					
	connected 6.1(A), 6.1(B), 6.4(B)					

Con	tont	Unit	CHECKPOINT			
Con	tent	Unit	1	2	3	
Energy	Energy Resources					
6.7(A)	research and discuss the advantages and disadvantages of using coal, oil, natural gas, nuclear power, biomass, wind, hydropower, geothermal, and solar resources					

Dro	10000 (W O)	Unit	CHECKPOINT				
PIC	Cess (Ways to Show)		1	2	3		
6.2(E)	analyze and formulate explanations, communicate conclusions, and predict trends $^{\otimes}$						
6.3(A)	analyze, evaluate, and critique scientific explanations to encourage critical thinking						
	connected 6.2(C), 6.2(D), 6.3(B), 6.3(C), 6.3(D)						



>> Force Mation Detautial and Vinatia Fueray		l lmit	CHECKPOINT			
<i>>></i>	Force, Motion, Potential, and Kinetic Energy	Unit	1	2	3	
6.8	Force, motion, and energy. The student knows force and motion are related to potential and kinetic energy.					

Droc	PACC (Table to Know)	Unit	CHECKPOINT			
PIOC	Cess (Tools to Know)	Unit	1	2	3	
6.2(A) 6.2(B) 6.4(A)	describe, plan, and implement comparative investigations [®] design and implement experimental investigations [®] collect, record, and analyze information using tools [®]					
	connected 6.1(A), 6.1(B), 6.4(B)					

Content		l lmia	CHECKPOINT			
Com	lent	Unit	1	2	3	
Potent	Potential and Kinetic Energy .8(A)* compare and contrast potential and kinetic energy Motion .8(C)* calculate average speed using distance and time measurements					
6.8(A)*	compare and contrast potential and kinetic energy					
Motio	n					
6.8(C)*	calculate average speed using distance and time measurements					
6.8(B)						
6.8(D)*	measure and graph changes in motion					
6.8(E)	investigate how inclined planes can be used to change the amount of force to move an object $^{\textcircled{\$}}$					

Process (Many to Obana)	Unit	CHECKPOINT			
Process (Ways to Show)		1	2	3	
 6.2(D) construct tables and graphs to organize data and identify patterns 6.2(E) analyze and formulate explanations, communicate conclusions, and predict trends 6.3(B) use models to represent the natural world 					
connected 6.2(C), 6.3(A), 6.3(C), 6.3(D)					

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





of Concernation of Fuerra	Unit	CHECKPOINT			
Law of Conservation of Energy		1	2	3	
6.9 Force, motion, and energy. The student knows that the Law of Conservation of Energy states that energy can neither be created nor destroyed, it just changes form.					

Droc	ACC (Table to Know)	Unit	CHECKPOINT				
PIOC	Cess (Tools to Know)	Unit	1	2	3		
6.2(A) 6.2(B) 6.4(A)	describe, plan, and implement comparative investigations ® design and implement experimental investigations ® collect, record, and analyze information using tools ®						
	connected 6.1(A), 6.1(B), 6.4(B)						

Conf	tont	Unit	CHECKPOINT		
COIII	lent	Unit	1	2	3
Energy	r Transfer				
6.9(A)	investigate methods of thermal energy transfer, including conduction, convection, and radiation				
6.9(B)	verify through investigations that thermal energy moves in a predictable pattern from warmer to cooler until all the substances attain the same temperature such as an ice cube melting				
Energy	r Transformation				
6.9(C)*	demonstrate energy transformations such as energy in a flashlight battery changes from chemical energy to electrical energy to light energy				

Process (Maria to Oberry)	Unit	CHECKPOINT				
Process (Ways to Show)	Onit	1	2	3		
6.2(E) analyze and formulate explanations, communicate conclusions, and predict trends ® use models to represent the natural world ®						
connected 6.2(C), 6.2(D), 6.3(A), 6.3(C), 6.3	(D)					



Church	Structure of Earth	Unit	CHECKPOINT			
Struct	ture of Earth		1	2	3	
6.10	Earth and space. The student understands the structure of Earth, the rock cycle, and plate tectonics.					

Droc	ACC (Table to Know)	Unit	CHECKPOINT				
PIOC	Cess (Tools to Know)	Unit	1	2	3		
6.2(A) 6.2(B) 6.4(A)	describe, plan, and implement comparative investigations ® design and implement experimental investigations ® collect, record, and analyze information using tools ®						
	connected 6.1(A), 6.1(B), 6.4(B)						

Cont	Content		CHECKPOINT		
Com			1	2	3
Classifying Rocks					
6.10(B)	classify rocks as metamorphic, igneous, or sedimentary by the processes of their formation				
Layers	of Earth				
6.10(A)	build a model to illustrate the compositional and mechanical layers of Earth, including the inner core, outer core, mantle, crust, asthenosphere, and lithosphere				
Tecton	ic Plates				
6.10(C)	identify the major tectonic plates, including Eurasian, African, Indo-Australian, Pacific, North American, and South American				
6.10(D)	describe how plate tectonics causes major geological events such as ocean basin formation, earthquakes, volcanic eruptions, and mountain building $^{\textcircled{\$}}$				

Droc	3000 (Marca to Oberry)	Unit	CHECKPOINT				
Proc	Cess (Ways to Show)		1	2	3		
6.2(E) 6.3(B)	analyze and formulate explanations, communicate conclusions, and predict trends $^{\textcircled{3}}$ use models to represent the natural world $^{\textcircled{3}}$						
	connected 6.2(C), 6.2(D), 6.3(A), 6.3(C), 6.3(D)						





0	sination of Colon Creatons	Heit	Cŀ	IECKPOII	NT
Organ	nization of Solar System	Unit	1	2	3
6.11	Earth and space. The student understands the organization of our solar system and the relationships among the various bodies that comprise it.				

Droc	Process (Tools to Know)		Cŀ	IECKPOII	NT
Proc	ess (Tools to Know)	Unit	1	2	3
6.2(A)	describe, plan, and implement comparative investigations ®				
6.2(B)	design and implement experimental investigations ®				
6.4(A)	collect, record, and analyze information using tools $^{ ext{@}}$				
	connected 6.1(A), 6.1(B), 6.4(B)				

Content	Unit	CI	NT	
Content	Unit	1	2	3
The Solar System				
6.11(A) describe the physical properties, locations, and movements of the Sun, planets, moons, meteors, asteroids, and comets [®]				
6.11(B)* understand that gravity is the force that governs the motion of our solar system				
Space Exploration				
6.11(C) describe the history and future of space exploration, including the types of equipment and transportation needed for space travel				

Process (Maria ta Obarra)		Heit	Cŀ	IECKPOI	NT
Process (Ways to Show)		Unit	1	2	3
6.2(E) analyze and formulate explanations, communicate co 6.3(B) use models to represent the natural world [®]					
6.3(D) relate the impact of research on scientific thought an	d society				
	connected 6.2(C), 6.2(D), 6.3(A), 6.3(C))				





>> Cla	>> Classifications of Organisms		CH	IECKPOIN	TI
>> Cla	issifications of Organisms	Unit	1	2	3
6.12	Organisms and environments. The student knows all organisms are classified into domains and kingdoms. Organisms within these taxonomic groups share similar characteristics that allow them to interact with the living and nonliving parts of their ecosystem.				

Process (Tools to Know)		Hait	CI	HECKPOI	NT
Process ()	loois to Know)	Unit	1	2	3
6.2(B) design a	e, plan, and implement comparative investigations $^{\textcircled{3}}$ and implement experimental investigations $^{\textcircled{3}}$ record, and analyze information using tools $^{\textcircled{3}}$				
	connected 6.1(A), 6.1(B), 6.4(B)				

Cont	Content		Cl	HECKPOI	IT
Cont	ent	Unit	Jnit CHECKPOINT 1 2 3	3	
Charac	teristics and Classification of Organisms				
6.12(D)*	identify the basic characteristics of organisms, including prokaryotic or eukaryotic, unicellular or multicellular, autotrophic or heterotrophic, and mode of reproduction, that further classify them in the currently recognized kingdoms				
6.12(A)	understand that all organisms are composed of one or more cells $\ ^{\textcircled{\$}}$				
6.12(B)	recognize that the presence of a nucleus is a key factor used to determine whether a cell is prokaryotic or eukaryotic $^{}$				
6.12(C)	recognize that the broadest taxonomic classification of living organisms is divided into currently recognized domains $^{\circledR}$				
lunk nu ala	down				
interae	ependence				
6.12(E)	describe biotic and abiotic parts of an ecosystem in which organisms interact $^{\otimes}$				
6.12(F)	diagram the levels of organization within an ecosystem, including organism, population, community, and ecosystem				

Dro	Process (Ways to Show)	l lmit	Cŀ	IECKPOIN	JT
PIO	Cess (ways to snow)	Unit	1	2	3
6.2(E) 6.3(B)	analyze and formulate explanations, communicate conclusions, and predict trends $^{\textcircled{3}}$ use models to represent the natural world $^{\textcircled{3}}$				
	connected 6.2(C), 6.2(D), 6.3(A), 6.3(C), 6.3(D)				

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





	PROCESS STANDARDS: SCIENTIFIC INVESTIGATION AND REASONING		Unit	CH	ECKPOI	NT	ı
	PROCESS STANDARDS: SCIENTIFIC INVESTIGATION AND REASONIN	NG	Unit	1	2	3	ı
6.1	The student, for at least 40% of instructional time, conducts laboratory and field investigations following safety procedures and environmentally appropriate and ethical practices. The student uses scientific practices during laboratory and field	Tools to Know					
	investigations.						
6.3	The student uses critical thinking, scientific reasoning, and problem solving to make informed decisions and knows the contributions of relevant scientists.	Ways to					
6.4	The student knows how to use a variety of tools and safety equipment to conduct science inquiry.	Show					

	TOOLS TO KNOW		Cŀ	IECKPOII	NT
	TOOLS TO KNOW	Unit	1	2	3
6.1(A)	demonstrate safe practices during laboratory and field investigations as outlined in Texas Education Agency-approved safety standards				
6.1(B)	practice appropriate use and conservation of resources, including disposal, reuse, or recycling of materials				
6.2(A)	plan and implement comparative and descriptive investigations by making observations, asking well defined questions, and using appropriate equipment and technology $^{\textcircled{\$}}$				
6.2(B)	design and implement experimental investigations by making observations, asking well defined questions, formulating testable hypotheses, and using appropriate equipment and technology $^{\textcircled{\$}}$				
6.4(A)	use appropriate tools, including journals/notebooks, beakers, Petri dishes, meter sticks, graduated cylinders, hot plates, test tubes, balances, microscopes, thermometers, calculators, computers, timing devices, and other necessary equipment to collect, record, and analyze information				
6.4(B)	use preventative safety equipment, including chemical splash goggles, aprons, and gloves, and be prepared to use emergency safety equipment, including an eye/face wash, a fire blanket, and a fire extinguisher				

	WAYS TO SHOW		Cŀ	HECKPOI	NT
	WAYS TO SHOW	Unit			
6.2(C)	collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers				
6.2(D)	construct tables and graphs, using repeated trials and means, to organize data and identify patterns				
6.2(E)	analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends $^{\textcircled{3}}$				
6.3(A)	analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, so as to encourage critical thinking by the student				
6.3(B)	use models to represent aspects of the natural world such as a model of Earth's layers [®]				
6.3(C)	identify advantages and limitations of models such as size, scale, properties, and materials				



6.3(D)	relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content			

