Matterand	Matter and energy		
	Matter and energy. The student knows that matter has measurable physical properties and those properties determine how matter is		
	hanged, and used. The student is expected		
SE	TEKS	Question Stems	
3.5 C	predict, observe, and record changes in	(38) Some students put two ice cubes on separate plates. One	
	the state of matter caused by heating or	ice cube had a mass of 80 grams. The other had a mass of 40 grams. Which result would be the same for both ice cubes in	
	cooling. Supporting Standard	1 -	
		this investigation? (2013) (7) What change is the student most likely observing in this	
		model? (2014)	
		(12) What statement explains what most likely happened to the	
		liquid wax? (2015)	
Matter and	Lanorgy	liquid wax: (2013)	
		al properties and those properties determine how matter is	
	hanged, and used. The student is expected		
SE	TEKS	Question Stems	
5.5 A	classify matter based on physical	(2) Which of these is the best conductor of electricity? (2013)	
J.J A	properties, including mass, magnetism,	(2) Which of these is the best conductor of electricity: (2013)	
	physical state (solid, liquid, and gas),		
	relative density (sinking and floating),	(40) 1911	
	solubility in water, and the ability to	(10) Which property of the powder is the teacher	
	conduct or insulate thermal energy or	demonstrating? (2013)	
	electric energy; Readiness Standard		
		(26) Which property of the materials wrapping the jars are the	
		students most likely investigating? (2013)	
		(22) W/I	
		(33) Why would the student shake the salad dressing well	
		before using it? (2013)	
		(14) What is the difference in grams between the total mass of	
		the liquid substances and the total mass of the solid substances	
		used in the investigation? (2014)	
		(23) Why are the protective gloves necessary? (2014)	
		(33) Which of the following explains a useful method for removing some of these objects? (2014)	
		(39) Which table correctly shows the physical properties of	
		these ingredients when placed in hot water? (2014)	
		(2) Based on these on these observations, which container	
		most likely holds only gas? (2015)	
		(8) Which statement identifies a property that could be used to	
		classify these objects into two different groups? (2015)	
		(23) Which property cannot be used to classify these objects	
		into more than one group? (2015)	
		(29) Based on the table, which material would be best to use to	
		insulate electrical wires? (2015)	
5.5 B		(14) How many more degrees Celsius must the temperature	
		rise before it reaches the boiling temperature of water? (2013)	



	The second of th	(2) At the transfer of the tran	
	identify the boiling and freezing/melting	(2) At what temperature did the water outside the school	
	points of water on the Celsius scale;	building most likely begin to change to ice? (2014)	
	Supporting Standard	(35) How many degrees above boiling point of water is this	
5.5.C		temperature? (2015)	
5.5 C	demonstrate that some mixtures	(21) The mixture would be easy to separate because all the	
	maintain physical properties of their	beads — (2013)	
	ingredients such as iron filings and sand;	(29) What should the student do to most easily separate the	
	Supporting Standard	pepper from the salt? (2014)	
		(42) Which property of the sugar remains the same when the	
		sugar is in the tea solution? (2015)	
5.5 D	identify changes that can occur in the	(40) What most likely happened to the salt? (2013)	
	physical properties of the ingredients of		
	solutions such as dissolving salt in water	(17) Which of the following most likely occurred when more	
	or adding lemon juice to water.	water was added? (2014)	
	Supporting Standard	(15) Which question is the student most likely trying to answer	
		with this investigation? (2015)	
Force, Mo	tion, and Energy.		
The studer	nt knows that energy occurs in many forms a	nd can be observed in cycles, patterns, and systems. The	
student is	expected to:		
SE	TEKS	Question Stems	
3.6 B	demonstrate and observe how position	(1) In which direction does the ball most likely move after the	
	and motion can be changed by pushing	student taps the ball? (2013)	
	and pulling objects to show work being	(36) Which of these should a person do to lift the box? (2014)	
	done such as swings, balls, pulleys, and	(43) What do the students need to do to slide the box	
	wagons. Supporting Standard	northeast? (2015)	
Force, Mo	tion, and Energy.		
	•	nd can be observed in cycles, patterns, and systems. The	
student is	expected to		
SE	TEKS	Question Stems	
5.6 A	explore the uses of energy, including	(6) What type of energy is used to make the turbines spin in	
	mechanical, light, thermal, electrical,	this type of dam? (2013)	
	and sound energy; Readiness Standard		
		(18) What is the energy source for these objects? (2013)	
		(19) What kinds of energy are needed in this investigation to	
		change the state of matter of the candle? (2014)	
		(44) Which form of energy is used to turn on the switch? (2014)	
		(1) Which of these is not an example of the bicycle using	
		mechanical energy? (2015)	
		(39) When the bat flies and listens to echoes to locate prey, it is	
		using(2015)	
5.6 B	demonstrate that the flow of electricity	(16) How many of the bulbs will remain lit if the wire is cut at	
	in circuits requires a complete path	the point shown by the arrow? (2013)	
	through which an electric current can		



	pass and can produce light, heat, and sound; <i>Readiness Standard</i>	(35) Which of these changes to the electric circuit shown above will cause the light bulb to light up? (2013)
		(43) When the lights are on, electricity travels in— (2013)
		(15) Which statement best explains why there are two metal posts on the battery? (2014)
		(26) Which of these describes one thing that could happen if the wire in a car fuse burns out? (2014)
		(4) The lightbulb does not glow. Which statement explains this observation? (2015)
		(16) In addition to mechanical energy, which of these is produced as electric current passes through the circuit of this fan? (2015)
		(25) To recharge the battery for later use without lighting the bulb, which of the following switches should be closed? (2015)
5.6 C	demonstrate that light travels in a straight line until it strikes an object or	(4) Which of these best demonstrates the reflection of light? (2013)
	travels through one medium to another and demonstrate that light can be	(23) In which other situation does light bend? (2013)
	reflected such as the use of mirrors or other shiny surfaces and refracted such as the appearance of an object when observed through water; <i>Readiness</i>	(31) Which of the following best describes how the objective lens of this telescope helps a scientist observe the moon? (2013)
	Standard	(4) Why does the lower part of the child appear so much different in size from the upper part? (2014)
		(22) What is the most likely reason this box looks brighter? (2014)
		(40) After the light leaves the fiber, it travels — (2014)(6) Which diagram shows X where the object is most likely located? (2015)
		(19) The fish appears to be closer to the surface than it really is. What causes this difference? (2015)
		(36) Which property of light makes it possible to produce hand shadows? (2015)
5.6 D	design an experiment that tests the effect of force on an object. Supporting	(41) Which question is this investigation most likely designed to answer? (2013)
	Standard	(10) Which of these is most likely Step 3 in the student's experiment? (2014)
		(31) What other piece of equipment would be most useful for this experiment? (2014)
		(31) What should the student do to improve this experiment? (2015)



The student knows that Earth consists of natural resources and its surface is constantly changing. The student is expected to



C.T.	TEVO	Outside Character
SE	TEKS	Question Stems
3.7 B	investigate rapid changes in Earth's	(28) What type of event do the circles on the map most likely
	surface such as volcanic eruptions,	represent? (2015)
	earthquakes, and landslides. Supporting	
	Standard	
Earth and s	•	
		he natural world and among objects in the sky. The student is
expected to		
SE	TEKS	Question Stems
3.8 D	identify the planets in Earth's solar	(42) What is the name of this planet? (2014)
	system and their position in relation to	
	the Sun. Supporting Standard	
Earth and s	space.	
The studen	t knows that Earth consists of useful resource	ces and its surface is constantly changing. The student is expected
to:		
SE	TEKS	Question Stems
4.7 A	examine properties of soils, including	(12) Which type of soil will most likely stop water from flowing
	color and texture, capacity to retain	to the deepest roots of these plants? (2013)
	water, and ability to support the growth	(12) The soil the students observed is most likely — (2014)
	of plants; Supporting Standard	
4.7 C	identify and classify Earth's renewable	(26) Which of these resources is classified in the same category
	resources, including air, plants, water,	as coal? (2015)
	and animals; and nonrenewable	
	resources, including coal, oil, and	
	natural gas; and the importance of	
	conservation. Supporting Standard	
Earth and s	space.	
The studen	t knows that there are recognizable pattern	s in the natural world and among the Sun, Earth, and Moon
system. The	e student is expected to:	
SE	TEKS	Question Stems
4.8 A	measure and record changes in weather	(14) How many degrees Celsius did the high temperature
	and make predictions using weather	increase in the city that had the greatest change in high
	maps, weather symbols, and a map key;	temperature? (2015)
	Supporting Standard	
4.8 B	describe and illustrate the continuous	(28) Which of these observations would most likely be seen at
	movement of water above and on the	Stage N? (2013)
	surface of Earth through the water cycle	
	and explain the role of the Sun as a	
	major source of energy in this process;	
	and Supporting Standard	
4.8 C	collect and analyze data to identify	(7) If this day continues to be sunny, what will most likely
	sequences and predict patterns of	happen to the length of the shadow from 2 P.M. to 4 P.M.?
	change in shadows, tides, seasons, and	(2013)
	the observable appearance of the Moon	
	over time. Supporting Standard	
Earth and s		<u></u>
	, p	



The studer	nt knows Earth's surface is constantly changi	ing and consists of useful resources. The student is expected to	
SE	TEKS	Question Stems	
5.7 A	explore the processes that led to the	(17) Which two processes best complete this diagram? (2013)	
	formation of sedimentary rocks and	(20) All of these are related to the formation of oil or natural	
	fossil fuels; <i>Readiness Standard</i>	gas EXCEPT — (2014)	
		(32) Which of the following best explains how these layers can	
		become rock over many years? (2014)	
		(20) What kinds of particles needed to be present in the marine	
		mud in order for fossil fuels to form? (2015)	
		(44) What characteristic of sedimentary rock does this model	
		best show? (2015)	
5.7 B	recognize how landforms such as deltas,	(20) Which of these features was most likely formed by a	
	canyons, and sand dunes are the result	glacier? (2013)	
	of changes to Earth's surface by wind,	(8) How did the delta at the end of the Rio Grande form? (2014)	
	water, and ice; <i>Readiness Standard</i>	(24) Which process most likely caused these rocks to crack and	
		break? (2014)	
		(22) Which of these describes how this canyon was most likely	
		formed? (2015)	
5.7 C	identify alternative energy resources	(40) The valley was most likely formed by—(2015) (24) This power plant produces electricity most likely by using	
3.7 C	such as wind, solar, hydroelectric,	— (2013)	
	geothermal, and biofuels; <i>Readiness</i>		
	Standard	(30) Which action produces energy from an alternative source?	
		(2013)	
		(6) Which of the methods of generating electricity shown below	
		does NOT use alternative energy resources? (2014)	
		(38) Which alternative energy source is generated beneath	
		Earth's crust and can be used to heat buildings? (2014)	
		(7) Which of these characteristics of an area is most important	
		to the development of a hydroelectric power plant? (2015)	
		(38) Which list contains only alternative energy resources?	
		(2015)	
5.7 D	identify fossils as evidence of past living	(9) Layer 3 most likely formed in which of these environments?	
	organisms and the nature of the	(2013)	
	environments at the time using models.		
Fauth	Supporting Standard		
Earth and		s in the natural world and among the Sun. Earth, and Moon	
	it knows that there are recognizable pattern le student is expected to:	is in the natural world and among the Sun, Earth, and Moon	
SE	TEKS	Question Stems	
5.8 A	differentiate between weather and	(37) Which of these best describes climate rather than	
3.07.	climate; Supporting Standard	weather? (2013)	
		(18) Tracking rainfall over a long period provides the most	
		information about which characteristic of an area? (2014)	
5.8 B		(15) Which of the following events in the water cycle is an	
		example of solar energy being absorbed? (2013)	
	•		



explain how the Sun and the ocean interact in the water cycle; Supporting Standard	(27) What is the most likely effect of this process on the land areas nearby? (2014)
demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the	(5) Which of these cycles is a direct result of Earth's rotation? (2013)
apparent movement of the Sun across the sky; <i>Readiness Standard</i>	(32) On which side of a house in Texas should a window be placed so that the people inside the house can see the sunrise each day through the window? (2013)
	(1) If the globe could rotate only at the rate that Earth actually rotates, about how long would each complete rotation take? (2014)
	(35) Which picture shows how the tree's shadow most likely looked at 9:00 A.M.? (2014)
	(18) Which diagram below does not correctly represent the location of the sun at the time indicated? (2015)
	(33) A student is looking for evidence that Earth is always rotating on its axis. Which of the following would provide the best evidence? (2015)
identify and compare the physical characteristics of the Sun, Earth, and Moon. <i>Supporting Standard</i>	(10) Which of these characteristics describe both Earth and the moon? (2015)
	interact in the water cycle; Supporting Standard demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky; Readiness Standard identify and compare the physical characteristics of the Sun, Earth, and

systems, and relationships within the environments. The student is expected to:

SE	TEKS	Question Stems
3.9 A	observe and describe the physical characteristics of environments and how they support populations and	(11) Which of these organisms is best suited for the terrarium? (2014)
	communities within an ecosystem. Supporting Standard	(9) Which group of animals is most likely supported by an African savanna? (2015)

Organisms and environments.

The student knows that organisms undergo similar life processes and have structures that help them survive within their environments. The student is expected to:

SE	TEKS	Question Stems
3.10 C	C 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 bugs. Supporting Standard	(11) At which stage in the life cycle of a plant are seeds produced? (2013)
		(37) Which stage of the typical frog life cycle is most likely missing from their life cycle? (2015)



Organisms and environments.

The student knows that there are relationships, systems, and cycles within environments. The student is expected to:

SE	TEKS	Question Stems	
5.9 A	observe the way organisms live and survive in their ecosystem by	(3) How do these actions most benefit plants? (2013)	
	interacting with the living and non-living elements; <i>Readiness Standard</i>	(25) Which fact best describes one way this bird changes its environment to meet its needs? (2013)	
		(29) In fall and winter many trees lose their leaves in response to cooler temperatures and — (2013)	
		(21) How does this type of root system benefit a prickly pear cactus? (2014)	
		(41) Which of these facts best describes how these birds depend on other animals to survive? (2014)	
		(11) Which organism obtains energy without depending on another person? (2015)	
		(21) Based on the information, which two types of birds do not compete for food resources? (2015)	
		(27) Which of these living organisms was interacting with	
		another living organism in the environment? (2015)	
5.9 B	describe how the flow of energy	(8) What role do raccoons play in this food web? (2013)	
	derived from the Sun, used by	(27) Which of the following prairie food chains is in the correct	
	producers to create their own food, is	order? (2013)	
	transferred through a food chain and food web to consumers and	(9) Which table shows the correct role of each organism in the food chain below? (2014)	
	decomposers; Readiness Standard	(28) In a food chain, energy does NOT flow directly from —	
	decomposers, neuamoss standard	(2014)	
		(37) Which change would most likely occur if all the producers	
		in this ecosystem were removed? (2014)	
		(17) Which organisms transfer the most energy within the food	
		web? (2015)	
		(32) Which organisms in this food web eat only consumers? (2015)	
5.9 C	predict the effects of changes in ecosystems caused by living organisms, including humans,	(36) What effect does the rapid growth of kudzu most likely have on an ecosystem? (2013)	
	such as the overpopulation of	(25) Which of these will most likely happen when prairie dogs	
	grazers or the building of	are removed from an area? (2014)	
	highways; Supporting Standard	(43) Besides being very destructive to the habitats of other	
		animals, how do wild hogs most likely harm other animals?	
		(2014)	
		(30) If all the dead branches and dying trees in a wooded area	
		are removed, which bird's nesting habit would be most	
		affected? (2015)	



5.9 D	identify the significance of the carbon dioxide-oxygen cycle to the survival of	(42) How do plants affect the air that forest animals breathe? (2013)	
	plants and animals. Supporting Standard	(13) Which statement best describes the relationship between humans and plants in the carbon dioxide-oxygen cycle? (2015)	
		(5) Which substance is needed by plants to survive and is	
		released into the environment by animals? (2014)	
The stude to:		ns, and cycles within environments. The student is expected	
SE	TEKS	Question Stems	
5.10 A	compare the structures and functions of different species that help them live and survive such as hooves on prairie	(22) Which two traits best help a cactus conserve water in the dry conditions of a West Texas desert ecosystem? (2013)	
	animals or webbed feet in aquatic animals; <i>Readiness Standard</i>	(44) Which bird most likely catches and eats its food the way an eagle does? (2013)	
		(16) Ocotillo plants are better adapted for surviving in the desert than maple trees because the characteristics of ocotillo leaves — (2014)	
		(34) Both of these animals use their tails primarily for $-$ (2014)	
		(5) How do structures such as whiskers and antennae benefit organisms? (2015)	
		(34) The difference in the shape of these animals' teeth is most closely related to(2015)	
differentiate between inherited traits of plants and animals such as spines on a cactus or shape of a beak and learned behaviors such as an animal learning tricks or a child riding a bicycle; *Readiness Standard*	(13) For fox squirrels, which of these is a learned behavior? (2013)		
	tricks or a child riding a bicycle;	(19) Which of these investigations would best help the scientist determine whether this skill is a learned or an inherited behavior? (2013)	
		(39) Which of these is a trait that a crayfish most likely inherits from its parents? (2013)	
		(3) Which of these is an inherited trait of monarch butterfly caterpillars? (2014)	
		(30) Which of these is a learned behavior of a dog? (2014)	
		(3)Which of these observations describes a learned behavior? (2015)	
		(41) Which of the students' observations describes inherited traits? (2015)	
5.10 C	describe the differences between complete and incomplete	(34) Which observation best supports the conclusion that this insect undergoes incomplete metamorphosis? (2013)	
	metamorphosis of insects. Supporting Standard	(13) How is the life cycle of chiggers different from the life cycle of butterflies? (2014)	
		(24) Based on their observations, the students concluded that mosquitoes undergo complete metamorphosis while	



		Lancardian and a section of the sect		
		dragonflies undergo incomplete metamorphosis. Which of		
C	these explains why the students' conclusion is correct? (2015)			
Scientific investigation and reasoning. The student conducts classroom and outdoor investigations following home and school safety procedures and environmentally appropriate and ethical practices. The student is expected to:				
	T	T		
SE	TEKS	Question Stems		
5.1 A	demonstrate safe practices and the use of safety equipment as described in the Texas Safety Standards during classroom and outdoor investigations;	(23) Why are the protective gloves necessary? (2014)		
5.1 B	make informed choices in the conservation, disposal, and recycling of materials.	(30) Which action produces energy from an alternative source? (2013)		
5.2 A	describe, plan, and implement simple experimental investigations testing one variable;	(10) Which property of the powder is the teacher demonstrating? (2013)		
		(26) Which property of the materials wrapping the jars are the students most likely investigating? (2013)		
		(10) Which of these is most likely Step 3 in the student's experiment? (2014)		
		(31) What should the student do to improve this experiment? (2015)		
5.2 B	ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology;	(19) Which of these investigations would best help the scientist determine whether this skill is a learned or an inherited behavior? (2013)		
		(41) Which question is this investigation most likely designed to answer? (2013)		
		(29) What should the student do to most easily separate the pepper from the salt? (2014)		
		(15) Which question is the student most likely trying to answer with this investigation? (2015)		
5.2 C	collect information by detailed observations and accurate measuring;	 (12) The soil the students observed is most likely — (2014) (14) What is the difference in grams between the total mass of the liquid substances and the total mass of the solid substances used in the investigation? (2014) (44) Which form of energy is used to turn on the switch? (2014) (2) Based on these observations, which container most likely holds only gas? (2015) 		
		(6) Which diagram shows an X where the object is most likely located? (2015)		
		(18) Which diagram below does not correctly represent the location of the sun at the time indicated? (2015)		
		(41) Which of the students' observations describes inherited traits? (2015)		



5.2 D analyze and interpret information to construct reasonable explanations from	(1) In which direction does the bal student taps the ball? (2013)	
	direct (observable) and indirect (inferred) evidence;	(6) What type of energy is used to this type of dam? (2013)
		(7) If this day continues to be sunr happen to the length of the shador (2013)
		(9) Layer 3 most likely formed in w (2013)
		(12) Which type of soil will most li to the deepest roots of these plant
		(13) For fox squirrels, which of the (2013)
		(17) Which two processes best con

- all most likely move after the
- o make the turbines spin in
- iny, what will most likely ow from 2 P.M. to 4 P.M.?
- which of these environments?
- likely stop water from flowing nts? (2013)
- ese is a learned behavior?
- emplete this diagram? (2013)
- (18) What is the energy source for these objects? (2013)
- (24) The poster shown below advertises tours of a power plant. This power plant produces electricity most likely by using — (2013)
- (25) Which fact best describes one way this bird changes its environment to meet its needs? (2013)
- (27) Which of the following prairie food chains is in the correct order? (2013)
- (33) Why would the student shake the salad dressing well before using it? (2013)
- (34) Which observation best supports the conclusion that this insect undergoes incomplete metamorphosis? (2013)
- (36) What effect does the rapid growth of kudzu most likely have on an ecosystem? (2013)
- (38) Which result would be the same for both ice cubes in this investigation? (2013)
- (40) What most likely happened to the salt? (2013)
- (44) Which bird most likely catches and eats its food the way an eagle does? (2013)
- (3) Which of these is an inherited trait of monarch butterfly caterpillars? (2014)
- (8) How did the delta at the end of the Rio Grande form? (2014)
- (9) Which table shows the correct role of each organism in the food chain below? (2014)
- (13) How is the life cycle of chiggers different from the life cycle of butterflies? (2014)
- (16) Ocotillo plants are better adapted for surviving in the desert than maple trees because the characteristics of ocotillo leaves - (2014)



		(19) What kinds of energy are needed in this investigation to change the state of matter of the candle? (2014) (22) What is the most likely reason this box looks brighter? (2014) (25) Which of these will most likely happen when prairie dogs are removed from an area? (2014) (26) Which of these describes one thing that could happen if the wire in a car fuse burns out? (2014) (35) Which picture shows how the tree's shadow most likely looked at 9:00 A.M.? (2014) (36) Which of these should a person do to lift the box? (2014) (39) Which table correctly shows the physical properties of these ingredients when placed in hot water? (2014) (41) Which of these facts best describes how these birds depend on other animals to survive? (2014)
		 (43) Besides being very destructive to the habitats of other animals, how do wild hogs most likely harm other animals? (2014) (7) Which of these characteristics of an area is most important to the development of a hydroelectric power plant? (2015) (11) Which organism obtains energy without depending on another organism? (2015) (19) The fish appears to be closer to the surface than it really is.
		What causes this difference? (2015) (22) Which of these describes how this canyon was most likely formed? (2015) (23) Which property cannot be used to classify these objects into more than one group? (2015)
		(29) Based on the table, which material would be best to use to insulate electrical wires? (2015) (30) If all the dead branches and dying trees in a wooded area are removed, which bird's nesting habit would be most affected? (2015) (36) Which property of light makes it possible to produce hand shadows? (2015)
		(37) Which stage of the typical frog life cycle is most likely missing from their life cycle? (2015) (40) This valley was most likely formed by—(2015)
		(43) What do the students need to do to slide the box to the northeast? (2015)
5.2 E	demonstrate that repeated investigations may increase the reliability of results;	
5.2 F	communicate valid conclusions in [both] written [and verbal] form[s]; and	(15) Which statement best explains why there are two metal posts on the battery? (2014)



construct appropriate simple graphs, tables, maps, and charts using technology, including computers, to organize, examine, and evaluate information	(21) Based on this information, which two types of birds do not compete for food resources? (2015)
	(28) What type of event do the circles on the map most likely represent? (2015)
in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student;	(3) Which of these observations describes a learned behavior? (2015)
	(33) Which of the following would provide the best evidence? (2015)
evaluate the accuracy of the information related to promotional materials for products and services such as nutritional labels	
draw or develop a model that represents how something works or looks that cannot be seen such as how a soda dispensing machine works; and	(8) What role do raccoons play in this food web? (2013)
	(28) Which of these observations would most likely be seen at Stage N? (2013)
	(31) Which of the following best describes how the objective lens of this telescope helps a scientist observe the moon? (2013)
	(1) If the globe could rotate only at the rate that Earth actually rotates, about how long would each complete rotation take? (2014)
	(7) What change is the student most likely observing in this model? (2014)
	(32) Which of the following best explains how these layers can become rock over many years? (2014)
	(37) Which change would most likely occur if all the producers in this ecosystem were removed? (2014)
	(40) After the light leaves the fiber, it travels — (2014)
	(17) Which organisms transfer the most energy within the food web? (2015)
	(32) Which organisms in this food web eat only consumers? (2015)
	(44) Which characteristic of sedimentary rock does this model best show? (2015)
connect grade-level appropriate science	
scientists.	
	tables, maps, and charts using technology, including computers, to organize, examine, and evaluate information in all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student; evaluate the accuracy of the information related to promotional materials for products and services such as nutritional labels draw or develop a model that represents how something works or looks that cannot be seen such as how a soda dispensing machine works; and connect grade-level appropriate science concepts with the history of science, science careers, and contributions of



5.4 A	collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, pan balances, triple beam balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices, including clocks and stopwatches; and materials to support observations of habitats or organisms such as terrariums and aquariums; and	(23) In which other situation does light bend? (2013)
		(11) Which of these organisms is best suited for the terrarium? (2014)
		(31) What other piece of equipment would be most useful for this experiment? (2014)
		(8) Which statement identifies a property that could be used to classify these objects into two different groups? (2015)
		(24) Based of their observations, the students concluded that mosquitoes undergo complete metamorphosis while dragonflies undergo incomplete metamorphosis. Which of these explains why the students' conclusion is correct? (2015)
		(25) To recharge the battery for later use without lighting the bulb, which of the following switches could be closed? (2015)
5.4 B	use safety equipment, including safety goggles and gloves.	

