

Science 7th Grade

1st Quarter

Standard 1: Students will learn that science is the process of trying to understand the world,

Topic: The Nature of Science

Week	Performance Objectives	Performance Indicators	SA	TA
1	<ul style="list-style-type: none"> Explain the science of archaeology Compare and contrast science and technology 	I can explain what archaeology is		
		I can describe several common forms of technology used in science		
		I can list some examples of cultural remains studied by archaeologists		
	<ul style="list-style-type: none"> Explain the steps taken in scientific methods Compare and contrast scientific variables and constants Explain how a control is used during an experiment 	I can list the steps followed in a typical scientific method		
		I can explain how observations are different from inferences		
		I can compare and contrast a control and constant		

Standard 2: Students will learn that minerals compose much of Earth's crust and can be identified by their physical properties.

Topic: Minerals

2	<ul style="list-style-type: none"> Describe characteristics that all minerals share Explain how minerals form 	I can list at least four characteristics that all minerals share		
		I can describe two ways that minerals can form from solution		
		I can describe how crystals of minerals are classified		
	<ul style="list-style-type: none"> Describe physical properties used to identify minerals Identify minerals using physical properties such as hardness and streak 	I can explain how an unglazed porcelain tile can be used to identify a mineral		
		I can compare and contrast a mineral fragment that has one cleavage direction with one that has only fracture		
		I can explain why streak often is more useful for mineral identification than color		
	<ul style="list-style-type: none"> Describe characteristics of gems that make them more valuable than other minerals Identify useful elements that are contained in minerals 	I can describe how vein minerals form		
		I can list some uses for gems		
		I can name useful metals that are commonly extracted from minerals		

Standard 3: Students will learn that rocks continuously change as they are subjected to the processes of the rock cycle.

Topic: Rocks

3	<ul style="list-style-type: none"> Distinguish between a rock and a mineral Describe the rock cycle and some changes that a rock could undergo 	I can explain how rocks differ from minerals		
		I can describe the processes of the rock cycle		
		I can list the three major types of rock		
3	<ul style="list-style-type: none"> Recognize magma and lava as the materials that cool to form igneous rocks Contrast the formation of intrusive and extrusive igneous rocks Contrast granitic and basaltic igneous rocks 	I can name two ways igneous rocks are classified		
		I can explain why some types of magma form igneous rocks that are dark colored and dense		
		I can identify the property of magma that causes it to be forced upward toward Earth's surface		

4	<ul style="list-style-type: none"> Describe the conditions in Earth that cause metamorphic rocks to form Classify metamorphic rocks as foliated or nonfoliated 	I can explain what role fluids play in rock metamorphism		
		I can give examples of foliated and nonfoliated rocks		
		I can determine how a metamorphic rock is classified		
	<ul style="list-style-type: none"> Explain how sedimentary rocks form from sediments Classify sedimentary rocks as detrital, chemical, or organic in origin Summarize the rock cycle 	I can identify where sediments come from		
		I can explain why compaction is important in the formation of coal		
		I can compare and contrast detrital and chemical sedimentary rock		

Standard 4: Students will learn that Earth's atmosphere helps regulate the absorption and distribution of energy received from the Sun.

Topic: Atmosphere

5	<ul style="list-style-type: none"> Identify the gases in Earth's atmosphere Describe the structure of Earth's atmosphere Explain what causes air pressure 	I can identify the layers of the atmosphere		
		I can list what makes up our atmosphere		
		I can learn about the ozone layer		
	<ul style="list-style-type: none"> Describe what happens to the energy Earth receives from the Sun Compare and contrast radiation, conduction, and convection Explain the water cycle and its effect on weather patterns and climate 	I can state how the Sun transfers energy to Earth		
		I can describe the water cycle		
		I can explain the different ways heat is transmitted		
	<ul style="list-style-type: none"> Explain why different latitudes on Earth receive different amounts of solar energy Describe the Coriolis effect Explain how land and water surfaces affect the overlying air 	I can conclude why some parts of Earth's surface receive more of the Sun's heat than other regions		
		I can explain how the Coriolis effect influences winds		
		I can describe what causes air movement and wind		

Standard 5: Students will learn that weather refers to the state of the atmosphere at a specific time and place.

Topic: Weather

6	<ul style="list-style-type: none"> Explain how solar heating and water vapor in the atmosphere affect weather Discuss how clouds form and how they are classified Describe how rain, hail, sleet, and snow develop 	I can explain why weather is important		
		I can summarize how clouds form		
		I can compare and contrast humidity and relative humidity		
6	<ul style="list-style-type: none"> Describe how weather is associated with fronts and high- and low-pressure areas Explain how tornadoes develop from thunderstorms Discuss the dangers of severe weather 	I can describe how a cold front affects weather		
		I can explain what causes lightning and thunder		
		I can compare and contrast a watch and a warning		
	<ul style="list-style-type: none"> Explain how data are collected for weather maps and forecasts Identify the symbols used in a weather station model 	I can list some instruments that are used to collect weather data		
		I can list items of data that are recorded in a station model		
		I can define what a meteorologist is		

Standard 6: Students will learn that climate is the pattern of weather that occurs in an area over many years.

Topic: Climate

7	<ul style="list-style-type: none"> Describe what determines climate Explain how latitude, oceans, and other factors affect the climate of a region 	I can explain how places in the same latitude can have different climates		
		I can describe how mountains affect climate		
		I can compare and contrast tropical and polar climates		
	<ul style="list-style-type: none"> Describe a climate classification system Explain how organisms adapt to a particular climate 	I can define adaptation		
		I can identify the classification groups of climates		
		I can list examples of structural adaptation that help animals survive		
	<ul style="list-style-type: none"> Explain what causes seasons Describe how El Nino affects climate Explore possible causes of climate change 	I can explain how Earth's tilted axis is responsible for seasons		
		I can compare and contrast El Nino and La Nina		
		I can list different human activities that increase carbon dioxide		

*** END OF FIRST QUARTER ***

2nd Quarter

Standard 1: Students will learn that many observations on Earth can be attributed to Earth's place in space.

Topic: Earth in Space

Week	Performance Objectives	Performance Indicators	SA	TA
1	<ul style="list-style-type: none"> Identify Earth's shape and other physical properties Compare and contrast Earth's rotation and revolution Explain the causes of Earth's seasons 	I can explain how planets develop their physical shapes		
		I can describe whether the shape of Earth's orbit affect or does not affect the seasons		
		I can describe what causes day and night		
	<ul style="list-style-type: none"> Identify the moon's surface features and interior Explain the moon's phases Explain the causes of solar and lunar eclipses Identify the origin of the Moon 	I can name some features of the moon's surface		
		I can compare and contrast a solar and lunar eclipses		
		I can explain the collision hypothesis of lunar formation		
	<ul style="list-style-type: none"> List the important characteristics of inner planets Identify how other inner planets compare and contrast with Earth List the important characteristics of outer planets 	I can describe what astronomers use to measure distance in space		
		I can list all the planets of the solar system		
		I can describe one hypothesis of the origin of the solar system		

Standard 2: Students will learn that life science includes the study and classification of living things.				
Topic: Life's Structure and Classification				
2	<ul style="list-style-type: none">Distinguish between living and nonliving thingsIdentify what living things need to survive	I can define what an organism is		
		I can list the needs of living things		
		I can identify what living things are made up of		
	<ul style="list-style-type: none">Describe how early scientists classified living thingsExplain the system of binomial nomenclatureDemonstrate how to use a dichotomous key	I can identify the two parts that make up binomial nomenclature		
		I can explain the purpose of classification		
		I can identify what scientists use to determine classification		
3	<ul style="list-style-type: none">Describe the development of the cell theoryIdentify names and functions of each part of a cellExplain how important a nucleus is in a cellCompare tissues, organs, and organ systems	I can state the cell theory		
		I can explain how cells are organized		
		I can describe how cells work in many-celled organisms		
	<ul style="list-style-type: none">Explain how a virus makes copies of itselfIdentify the benefits of vaccinesInvestigate some uses of viruses	I can define what a virus is		
		I can list the steps an active virus follows when attacking a cell		
		I can explain how vaccines prevent infection		
Standard 3: Students will learn that each cell undergoes processes that ensure its survival and often, the survival of other organisms				
Topic: Cell Processes				
4	<ul style="list-style-type: none">List the differences among atoms, elements, molecules, and compoundsExplain the relationship between chemistry and life scienceDiscuss how organic compounds are different from inorganic compounds	I can compare and contrast atoms and molecules		
		I can list the four types of organic compounds found in all living things		
		I can explain why water is one of the most important inorganic compounds		
	<ul style="list-style-type: none">Describe the function of a selectively permeable membraneExplain how the processes of diffusion and osmosis move molecules in living cellsExplain how passive transport and active transport differ	I can describe how cell membranes are selectively permeable		
		I can compare and contrast the processes of osmosis and diffusion		
		I can explain why endocytosis and exocytosis are important processes to cells		
	<ul style="list-style-type: none">List the differences between producers and consumersExplain how the processes of photosynthesis and cellular respiration store and release energyDescribe how cells get energy from glucose through fermentation	I can compare producers and consumers		
		I can describe what fermentation is		
		I can explain how photosynthesis, cellular respiration and fermentation are related		
Standard 4: Students will learn that reproduction must occur for species to survive.				
Topic: Cell Reproduction				
5	<ul style="list-style-type: none">Explain why mitosis is importantExamine the steps of mitosis	I can enumerate the steps of mitosis		
		I can identify two examples of asexual reproduction		

	<ul style="list-style-type: none">• Compare mitosis in plant and animal cells• List the two examples of asexual reproduction	I can determine the difference in mitosis between plant and animal cells		
	<ul style="list-style-type: none">• Describe the stages of meiosis• Explain why meiosis is needed for sexual reproduction• Name the cells that are involved in fertilization• Explain how fertilization occurs in sexual reproduction	I can describe a zygote and how it is formed		
		I can explain where sex cells form		
		I can compare what happens to chromosomes during anaphase I and anaphase II.		
	5	<ul style="list-style-type: none">• Identify the parts of a DNA molecule and its structure• Explain how DNA copies itself• Describe the structure and function of each kind of RNA	I can describe how DNA makes a copy of itself	
I can explain how the codes for proteins are proteins are carried from the nucleus to the ribosomes				
I can explain what happens if DNA is not copied exactly				
Standard 5: Students will learn that inherited genes determine an organism’s traits				
Topic: Heredity				
6	<ul style="list-style-type: none">• Explain how traits are inherited• Identify Mendel’s role in the history of genetics• Use a Punnett square to predict the results of crosses• Compare and contrast the difference between an individual’s genotype and phenotype	I can define heredity		
		I can identify Mendel’s contributions to genetics		
		I can describe how dominant and recessive alleles are represented in a Punnett square		
	<ul style="list-style-type: none">• Explain how traits are inherited by incomplete dominance• Compare multiple alleles and polygenic inheritance, and give examples of each• Describe two human genetic disorders and how they are inherited• Explain how sex-linked traits are passed to offspring	I can compare how inheritance by multiple alleles and polygenic inheritance are similar		
		I can explain what happens when errors occur in the copying of DNA		
		I can determine what controls many human genetic disorders		
	<ul style="list-style-type: none">• Evaluate the importance of advances in genetics• Sequence the steps in making genetically engineered organisms	I can explain why genetics is important		
		I can describe how selective breeding differs from genetic engineering		
		I can infer some benefits of genetically engineered crops		
Standard 6: Student will learn that life-forms have changed over time.				
Topic: Adaptations Over Time				
7	<ul style="list-style-type: none">• Describe Lamarck’s hypothesis of acquired characteristics and Darwin’s theory of natural selection• Identify why variations in organisms are important• Compare and contrast gradualism and punctuated equilibrium	I can compare Lamarck’s and Darwin’s theories on evolution		
		I can explain why variations are important to understanding change in a population over time		
		I can describe how geographic isolation contributes to evolution		
	<ul style="list-style-type: none">• Identify the importance of fossils as evidence of evolution• Explain how relative and radiometric dating are used to estimate the age of fossils• List examples of five types of evidence for evolution	I can compare and contrast relative dating and radiometric dating		
		I can explain how DNA can provide some sense of evolution		
		I can list three examples of direct evidence for evolution		

7	<ul style="list-style-type: none"> Describe the differences among living primates Identify the adaptations of primates Discuss the evolutionary history of modern primates 	I can list characteristics that separate primates from other mammals		
		I can identify three groups most scientists consider to be direct ancestors of modern humans		
		I can name evidence suggesting all primates share a common ancestor		

*** END OF SECOND QUARTER ***

3rd Quarter

Standard 1: Students will learn that the circulatory and immune systems interact and keep the body healthy.

Topic: Circulation and Immunity

Week	Performance Objectives	Performance Indicators	SA	TA
1	<ul style="list-style-type: none"> Identify the parts and functions of blood Explain why blood types are checked before a transfusion Give examples of diseases of blood 	I can list the four functions of blood in the body		
		I can compare and contrast red blood cells, white blood cells, and platelets		
		I can explain why blood type and Rh factor are checked before a transfusion		
	<ul style="list-style-type: none"> Compare and contrast arteries, veins, and capillaries Explain how blood moves through the heart. Identify the functions of the pulmonary and systemic circulation systems Describe functions of the lymphatic system 	I can compare and contrast the three types of blood vessels		
		I can describe the functions of the lymphatic system		
		I can explain how blood flows through the heart		
	<ul style="list-style-type: none"> Explain the difference between an antigen and an antibody Compare and contrast active and passive immunity 	I can describe how harmful bacteria can cause infections in our bodies		
		I can list the natural defenses our bodies have against diseases		
		I can explain how an active vaccine works to protect the human body		
2	<ul style="list-style-type: none"> Describe the work of Pasteur, Koch, and Lister in the discovery and prevention of disease Identify diseases caused by viruses and bacteria Explain how HIV affects the immune system Define noninfectious diseases and list their causes Explain what happens during an allergic reaction 	I can identify the contributions made by Pasteur, Koch, and Lister in the prevention of diseases		
		I can compare and contrast how HIV and other viruses affect the immune system		
		I can recognize how poor hygiene is related to the spread of disease		

Standard 2: Students will learn that your digestive, respiratory, and excretory systems work together to keep your body healthy

Topic: Digestion, Respiration, and Excretion

2	<ul style="list-style-type: none">Distinguish the differences between mechanical digestion and chemical digestionIdentify the organs of the digestive system and what takes place in eachExplain how homeostasis is maintained in digestion	I can list the four stages of digestion		
		I can explain why enzymes are important		
		I can describe how the accessory organs aid digestion		
	<ul style="list-style-type: none">Distinguish among the six classes of nutrientsIdentify the importance of each type of nutrientExplain the relationship between diet and health	I can list an example of a food source for each class of nutrients		
		I can explain how our body uses each class of nutrients		
		I can explain the importance of water in the body		
3	<ul style="list-style-type: none">Describe the functions of the respiratory systemExplain how oxygen and carbon dioxide are exchanged in the lungs and in tissuesIdentify the pathway of air in and out of the lungsExplain the effects of smoking on the respiratory system	I can state the main function of the respiratory system		
		I can explain what cellular respiration is		
		I can name different diseases of the respiratory system		
	<ul style="list-style-type: none">Distinguish between the excretory and urinary systemsDescribe how the kidneys workExplain what happens when urinary organs don't work	I can list the functions of a person's urinary system		
		I can explain how kidneys remove waste and keep fluids and salts in balance		
		I can compare the excretory system and urinary system		
Standard 3: Students will learn the structures and functions of the skin and the muscular, skeletal, and nervous systems help maintain our body's homeostasis.				
Topic: Support, Movement, and Responses				
3	<ul style="list-style-type: none">Distinguish between the epidermis and dermis of the skinIdentify the functions of the skinExplain how skin protects the body from disease and how it heals itself	I can compare and contrast the epidermis and dermis		
		I can identify the major functions of the skin		
		I can explain how skin helps prevent disease in the body		
4	<ul style="list-style-type: none">I can identify the major function of the muscular systemCompare and contrast the three types of musclesExplain how muscle action results in the movement of body parts	I can describe the function of muscles		
		I can describe how a muscle attaches to a bone		
		I can compare and contrast the three types of muscle tissue		
	<ul style="list-style-type: none">Identify the five functions of the skeletal systemCompare and contrast movable and immovable joints	I can explain immovable joints and give an example		
		I can describe ligaments and their functions in the skeletal system		
		I can explain the functions of cartilage in our skeletal system		
	<ul style="list-style-type: none">Describe the hair structure of a neuron and how impulses move across a synapseCompare and contrast the central and peripheral nervous systemsList the sensory receptors in each sense organExplain what type of stimulus and sense each organ responds to and how drugs work	I can name the sensory receptors for the eyes, ears, and nose		
		I can identify the role of saliva in tasting		
		I can compare and contrast the central and peripheral nervous systems		

Standard 4: Students will learn that human reproduction and growth and development involve the interactions of all body systems				
Topic: Regulation and Reproduction				
5	<ul style="list-style-type: none">Define how hormones functionIdentify different endocrine glands and the effects of the hormones they produceDescribe how a feedback system works in your body	I can explain the function of hormones		
		I can identify the control systems of our body		
		I can describe a negative-feedback system		
5	<ul style="list-style-type: none">Identify the function of the reproductive systemCompare and contrast the major structures of the male and female reproductive systemsSequence the stages of menstrual cycle	I can identify the major function of male and female reproductive systems in humans		
		I can tell the difference between the major organs and structures of the male and female reproductive systems		
		I can enumerate the stages of the menstrual cycle in a female		
	<ul style="list-style-type: none">Describe the fertilization of a human eggList the major events in the development of an embryo and fetusDescribe the developmental stages of infancy, childhood, adolescence, and adulthood	I can explain what fertilization is		
		I can describe how pregnancy starts		
		I can describe the major events that occur during childbirth		
Standard 5: Students will learn that the diverse plants on Earth provide humans and other organisms with food, shelter, and oxygen				
Topic: Plants				
6	<ul style="list-style-type: none">Identify the characteristics common to all plantsExplain which plant adaptations make it possible for plants to survive on landCompare and contrast vascular and nonvascular plants	I can list the characteristics of plants		
		I can identify three adaptations that allow plants to survive on land		
		I can explain why binomial nomenclature is used to name plants		
	<ul style="list-style-type: none">Distinguish between characteristics of seedless nonvascular plants and seedless vascular plantsIdentify the importance of some nonvascular and vascular plants	I can compare and contrast the characteristics of mosses and ferns		
		I can summarize the functions of vascular tissues		
		I can describe the importance of seedless plants		
	<ul style="list-style-type: none">Identify the characteristics of seed plantsExplain the structures and functions of roots, stems, and leavesDescribe the main characteristics and importance of gymnosperms and angiospermsCompare similarities and differences between monocots and dicots	I can identify the common characteristics of seed plants		
		I can explain why the root system might be the largest part of a plant		
		I can compare and contrast the characteristics of gymnosperms and angiosperms		
Standard 6: Students will learn that organisms interact with both the living and nonliving parts of their environment.				
Topic: Interactions of Living Things				
7	<ul style="list-style-type: none">Identify biotic and abiotic factors in an ecosystemDescribe the different levels of biological organizationExplain how ecology and the environment are related	I can compare and contrast abiotic factors and biotic factors		
		I can describe a population and a community		
		I can explain how ecology and environment correlate with each other		

7	<ul style="list-style-type: none"> Identify the characteristics that describe populations Examine the different types of relationships that occur among populations in a community Determine the habitat and niche of a species in a community 	I can describe how limiting factors can affect a population		
		I can explain the difference between a habitat and a niche		
		I can describe symbiosis and provide an example		
	<ul style="list-style-type: none"> Explain the difference between a food chain and a food web Describe how energy flows through ecosystems Examine how materials such as water, carbon, and nitrogen are used repeatedly 	I can create a food web that includes the food I've eaten today		
		I can compare and contrast producers, consumers, and decomposers		
		I can explain how carbon flows through ecosystems		

*** END OF THIRD QUARTER ***

4th Quarter

Standard 1: Students will learn that many of Earth's resources are limited.

Topic: Conserving Resources

Week	Performance Objectives	Performance indicators	SA	TA
1	<ul style="list-style-type: none"> Compare renewable and nonrenewable resources List uses of fossil fuels Identify the alternatives to fossil fuel use 	I can define natural resources		
		I can compare and contrast renewable and nonrenewable resources		
		I can describe the advantages and disadvantages of using nuclear power		
	<ul style="list-style-type: none"> Describe types of air pollution Identify causes of water pollution Explain methods that can be used to prevent erosion 	I can list ways that air pollution affects the environment		
		I can describe possible causes and effects of ozone depletion		
		I can explain different causes of air and water pollution		
	<ul style="list-style-type: none"> Recognize ways you can reduce your use of natural resources Explain how you can reuse resources to promote conservation Describe how many materials can be recycled 	I can identify the three Rs of conservation		
		I can list three ways to reduce the use of natural resources		
		I can explain why reusing is better than recycling		

Standard 2: Students will learn that matter is classified by physical and chemical properties and changes

Topic: Properties and Changes of Matter

2	<ul style="list-style-type: none"> Identify physical and chemical properties of matter Classify objects based on physical properties 	I can explain how our senses are important for identifying physical properties of matter		
		I can describe the physical properties of a baseball		
		I can compare and contrast chemical and physical properties		
	<ul style="list-style-type: none"> Compare several physical and chemical changes Identify examples of physical and chemical changes 	I can list five common physical changes		
		I can compare and contrast physical and chemical changes		
		I can state the law of conservation of mass		

Standard 3: Students will learn that matter can be classified as a substance (element or compound) or a mixture (homogeneous or heterogeneous)				
Topic: Substances, Mixtures, and Solubility				
3	<ul style="list-style-type: none">Distinguish between substances and mixturesDescribe the two different types of mixturesExplain how solutions formDescribe different types of solutions	I can compare and contrast substances and mixtures		
		I can tell the difference between heterogeneous and homogeneous mixtures		
		I can explain how a solution forms and give an example		
	<ul style="list-style-type: none">Explain why water is a good general solventDescribe how the structure of a compound affects solvents it dissolves inIdentify factors that affect how much of a substance will dissolve in a solventDescribe how temperature affects reaction rateExplain how solute particles affect physical properties of water	I can identify the property of water that makes it the universal solvent		
		I can describe the two methods to increase the rate at which a substance would dissolve		
		I can determine the difference between a polar and nonpolar molecule		
	<ul style="list-style-type: none">Compare acids and bases and their propertiesDescribe practical uses of acids and basesExplain how pH is used to describe the strength of an acid or baseDescribe how acids and bases react when they are brought together	I can use the pH scale to determine an if a substance is a base or an acid		
		I can name three acids and bases and list industrial uses for each		
		I can explain how the concentration of hydronium ions and hydroxide ions are related to pH		
	Standard 4: Students will learn that the particles in solids, liquids, and gases are always in motion			
Topic: States of Matter				
4	<ul style="list-style-type: none">Recognize that matter is made of particles in constant motionRelate the three states of matter to the arrangement of particles within them	I can define two properties of matter that determine its state		
		I can describe the movement of particles within solids, liquids, and gases		
		I can name the property liquids and solids share		
	<ul style="list-style-type: none">Define and compare thermal energy and temperatureRelate changes in thermal energy to changes in stateExplore energy and temperature changes on a graph	I can list three changes of state during which energy is stored		
		I can describe the two types of vaporization		
		I can state all the changes between states		
	<ul style="list-style-type: none">Explain why some things float but others sinkDescribe how pressure is transmitted through fluids	I can describe what happens to pressure as the force exerted on a given area increases		
		I can state Pascal's principle		
		I can describe how atmospheric pressure changes as altitude increases		
Standard 5: Students will learn that the change in motion of an object depends on all the forces that act on the object.				
Topic: Newton's Laws of Motion				
5	<ul style="list-style-type: none">Contrast distance and displacementDefine speed, velocity, and accelerationCalculate speed, velocity, and acceleration	I can determine a person's speed, velocity, and acceleration		
		I can state the equation for speed		
		I can describe how to solve for acceleration		

6	<ul style="list-style-type: none"> Define force Describe Newton's first law of motion Contrast balanced and unbalanced forces 	I can explain what a force is		
		I can describe the information that must be given to specify a force		
		I can state Newton's first law of motion		
	<ul style="list-style-type: none"> Predict changes in motion using Newton's second law Describe the gravitational force between objects Contrast different types of friction 	I can state Newton's second law		
		I can explain what gravitational force is		
		I can describe friction and its different types		
	<ul style="list-style-type: none"> Interpret motion using Newton's third law Analyze motion using all three laws 	I can state Newton's third law of motion		
		I can identify what action and reaction forces are		
		I can compare and contrast all three laws of motion		

Standard 6: Students will learn that changes occur when energy is transferred from one place to another

Topic: Energy and Energy Resources

7	<ul style="list-style-type: none"> Explain what energy is Distinguish between kinetic energy and potential energy Identify the various forms of energy 	I can define energy		
		I can describe the two main types of energy		
		I can identify different forces of energy		
	<ul style="list-style-type: none"> Apply the law of conservation of energy to energy transformations Identify how energy changes form Describe how electric power plants produce energy 	I can describe a process that converts chemical energy into thermal energy		
		I can state the law of conservation of energy		
		I can identify the steps that power plants use to change forms of energy		
	<ul style="list-style-type: none"> Explain what renewable, nonrenewable, and alternative resources are Describe the advantages and disadvantages of using various energy resources. 	I can explain why solar energy is considered an inexhaustible source of energy		
		I can identify examples of renewable and nonrenewable resources		
		I can compare nonrenewable, renewable, and alternative resources		

***** END OF FOURTH QUARTER *****