		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Earth Structure, Processes, and Cycles	Sort different types of earth materials		•		\$						
		Identify a variety of uses for water		*	•		\$	\ODE				
		Identify seasons that correspond with observable conditions. Identify how weather affects daily life	\$			\Q		\ODE		\$		
		Ask questions about objects, organisms, and events. Participate in simple investigations to answer a question or to test a prediction. Use the five senses and simple equipment to gather data	\$	*	•	\Omega	•	*	•	*	\$	\Phi
	Origin and Evolution of the Universe	Identify objects that can be found in the day or night sky	\$	\$		\ODE						
		Ask questions about objects, organisms, and events. • Participate in simple investigations to answer a question or to test a prediction. • Use the five senses and simple equipment to gather data	\$	\$	*	\$	\$	\ODE	\$	\$	\Omega	\Phi
Biological Sciences	Organisms and Cells	Recognize the difference between living and non-living things					•					
		Identify basic needs of plants (water and light) and animals (food, air, water)		\$		\ODE	•			\$		
		Recognize that plants and animals grow and change		*		\Q	•					
		Name basic parts of living things		*		\ODE	*					
		Ask questions about objects, organisms, and events. Participate in simple investigations to answer a question or to test a prediction. Use the five senses and simple equipment to gather data	\$	\$	•	\Omega	\$	*	*	\$	\$	\Omega
	Genetics	Match offspring to their parents					•					
		Ask questions about objects, organisms, and events. • Participate in simple investigations to answer a question or to test a prediction. • Use the five senses and simple equipment to gather data	\Pi	\$		\Omega	\$	\ODE				
	Evolution	Describe changes that occur in animals					\$					

		Ask questions about objects, organisms, and events. • Participate in simple investigations to answer a question or to test a prediction. • Use the five senses and simple equipment to gather data	\$	\$		•	•	•				
Physical Science	Chemistry	Sort and describe objects according to size, shape, color, and texture	\$	•	•	•	•	•		•	•	•
		Notice change in matter	\$	*	*	•	*	*		*	₩	\$
		Recognize that everything is made of matter	\$	•	\$	•	•	\$	•	•	•	\$
		Ask questions about objects, organisms, and events. • Participate in simple investigations to answer a question or to test a prediction. • Use the five senses and simple equipment to gather data	*	•	\$	•	\$	\$		\$	•	*
	Physics	Explore and describe motion of toys and objects	\$	*	•	•	•	•		•	•	•
		Create and describe variations of sound	\$	•			\$	\$		•		
		Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow	\$	\$			•					
		Ask questions about objects, organisms, and events. Participate in simple investigations to answer a question or to test a prediction. Use the five senses and simple equipment to gather data	\$	\$	•	•	\$	*		•	\$	*

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
	Earth Structure, Processes, and Cycles	Distinguish between three types of earth materials – rock, soil, and sand		•	•	\$						
		Identify sources of water for human consumption and use		\ODE	\ODE	\Q	•					
		Record daily weather conditions using simple charts and graphs Identify seasonal changes in the environment. Distinguish between types of precipitation		•								
Biological Sciences	Organisms and Cells	Identify the similarities and differences of living and non-living things		Q		•	•					
		Observe, compare, and describe stages of life cycles for plants and/or animals		•		•	•					
		Observe and describe structures and behaviors of a variety of common animals					•					
	Genetics	Observe and describe how young animals resemble their parents and other animals of the same kind										
	Evolution	Describe changes animals and plants undergo throughout the seasons		\ODE		•	•					
		Describe changes that occur as a result of climate	\$	\ODE			•					
Physical Science	Chemistry	Identify and classify objects by observable properties of matter. Compare different kinds of materials and discuss their uses	\$	•	\Phi	\$	•	\$	*	\Omega	*	\Phi
		Describe the way matter can change	\Phi	\Phi	\Q		*	\Phi		\ODE		\Pi
		Recognize that everything is made of matter	\Q	*	\Q	•	•	*	\Q	\ODE	•	\ODE
	Physics	Describe how temperature can affect the body	\$	*	\ODE	\$	•					
		Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow				•						

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Earth Structure, Processes, and Cycles	Observe, describe, and sort earth materials. Compare the composition of different soils				•						
		Identify and describe types of fresh and salt-water bodies (ocean, rivers, lakes, ponds)		•								
		Become familiar with weather instruments. Collect, describe, and record basic information about weather over time		\$	\Q	\$						
	Origin and Evolution of the Universe	Explain why shadows fall in different places at different times of the day		•	\$	•						
Biological Sciences	Organisms and Cells	Categorize living and nonliving things by external characteristics	\$	\$	\Q	•	•	\$		\Q	\Q	\Q
		Investigate the dependence of living things on the sun's energy, water, food/nutrients, air, living space, and shelter.		\$		\$	*					
		Identify and describe plant parts and their function		•			•					
	Genetics	Grow plants from seed and describe how they grow and change. Compare to adult plants										
	Evolution	Describe changes that occur as a result of habitat		\$		*	•					
Physical Science	Chemistry	Observe and describe the properties of liquids and solids. Investigate what happens when solids are mixed with water and other liquids are mixed with water		•	\Q		•					
		Identify how heating, melting, cooling, etc., may cause changes in properties of materials										
		Observe and describe what happens when substances are heated or cooled. Distinguish between changes that are reversible (melting, freezing) and not reversible (e.g. baking a cake, burning fuel)	\Q									

	Recognize that everything is made of matter	•	•	•	•	•	•	•	•	•	•
Physics	Demonstrate various types of motion. Observe and describe how pushes and pulls change the motion of objects	•		•	•	•	•			•	•
	Observe and record daily temperatures. Draw conclusions from daily temperature records as related to heating and cooling										
	Compare and contrast how light travels through different materials. Explore how mirrors and prisms can be used to redirect a light beam		•	•		•	•		•	•	•
	Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow					•					

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Earth Structure, Processes, and Cycles	Explore and describe that water exists in solid (ice) and liquid (water) form. Explain and illustrate evaporation and condensation		•	\Oldot							
	Origin and Evolution of the Universe	Observe and record • location of the Sun and the Moon in the sky over a day. • changes in the appearance of the Moon over a month. Observe, describe, and predict seasonal patterns of sunrise and sunset	\Q	•		•						
Biological Sciences	Organisms and Cells	Identify similarities and differences in the life cycles of plants and animals					*					
		Explain how different parts of a plant work together to make the organism function					•					
	Genetics	Distinguish between scientific fact and opinion. • Ask questions about objects, organisms, and events	\$	•	\$	•	•	\ODE	\ODE	\ODE	•	*
	Evolution	Explain that living things can only survive if their needs are being met		\$			•					
		Describe some plants and animals that once lived on Earth, (e.g., dinosaurs) but cannot be found anymore. Compare them to now living things that resemble them in some way (e.g. lizards and birds)		•		•	•					
Physical Science		Demonstrate how heating and cooling may cause changes in the properties of materials		•	\Phi	•	•			\Omega		\ODE
		Experiment and explain what happens when two or more substances are combined (e.g. mixing, dissolving, and separated (e.g. filtering, evaporation)			\ODE							
		Recognize that everything is made of matter	\$	•	\Phi	•	\Omega	*	\$	\Omega	\Q	\ODE
	Physics	Explore and describe how different forms of energy cause changes. (e.g., sunlight, heat, wind)	\$	•	\Phi	•				\Omega		
		Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow.		•		•				•		

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Earth Structure, Processess, and Cycles	Explain and give examples of the ways in which soil is formed	*	•		•						
		Identify the physical properties of minerals and demonstrate how minerals can be tested for these different physical properties				•						
		Connect the various forms of precipitation to the weather in a particular place and time		*		*						
		Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time		•		•	•					
	Origin and Evolution of the Universe	Relate the rotation of the earth and day/night, to the apparent movement of the sun, moon, and stars across the sky.Describe the changes that occur in the observable shape of the moon over the course of a month.		•		•						
Biological Sciences	Organisms and Cells	Describe characteristics of living things that help to identify and classify them		\$		*	•					
		Describe the basic needs of living things and their dependence on light, food, air, water, and shelter		\$		•	•					
		Illustrate how plants and animals go through predictable life cycles that include birth, growth, development, reproduction, and death										
		Identify the structures in plants that are responsible for food production, support, water transport, reproduction, growth, and protection										
	Genetics	Understand that plants and animals closely resemble their parents										
		Identify characteristics that appear in both parents and offspring										
	Evolution	Recognize that plants survive through adaptations, such as stem growth towards light and root growth downward in response to gravity.					•					

		Recognize that many plants and animals can survive harsh environments because of seasonal behaviors (e.g. hibernation, migration, trees shedding leaves)					•					
		Describe animal characteristics that are necessary for survival					•					
		Recognize that fossils provide us with information about living things that inhabited the Earth long ago				•						
Physical Science	Chemistry	Differentiate between properties of objects such as size, shape, and weight and properties of materials that make up the objects such as color, texture, and hardness. Differentiate between the three states of matter, classifying a substance as a solid, liquid, or gas	· •	•	•	•	•	•	•	•	•	•
		Recognize that all objects and materials in the world are made of matter	\$	•	\$	*	\$	•	•	•	\$	*
		Demonstrate how heating and cooling may cause changes in the properties of materials including phase changes										
		Use basic reactions to demonstrate observable changes in properties of matter (e.g., burning, cooking)										
		Recognize that everything is made of matter	\$	•	•	•	•	•	•	•	•	•
	Physics	Explain how movement can be described in many ways	\$	•	•	•	•	•	•	•	•	•
		Explore energy's ability to cause motion or create change.Explore how energy can be found in moving objects, light, sound, and heat	\Pi	•	•	•	*	•		•	•	•
		Explore temperature changes that result from the addition or removal of heat										
		Identify and classify objects and materials that are conductors or insulators of electricity	\$	•	•	•	•	•	•	•	•	•

Identify and classify objects and materials as magnetic or non-magnetic	\Q	\$	\$	\$	\$	\Q	\Q	\Q	\Q	\$
Recognize that light travels in a straight line until it strikes an object or travels from one material to another	\Pi		•					•		
Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow		•		•	•					

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Earth and Space Science	Earth Structures, Processes, and Cycles	Describe basic landforms. Identify the layers of the earth. Recognize that the surface of the earth changes due to slow processes and rapid processes		•	· ·	•						
		Identify basic properties and uses of Earth's materials including rocks, soils, water, and gases of the atmosphere.				\Omega						
		Recognize that fossils provide evidence about the plants and animals that lived long ago and the nature of the environment at that time				•						
		Recognize Earth's different water resources, including both fresh and saltwater. Describe phase changes in the forms of water on Earth.		•								
		Describe basic weather elements. Identify weather patterns over time		•		\Phi						
		Identify basic landforms using models and simple maps. Identify simple changes in the earth system as air, water, soil and rock interact. Explain how basic weather elements are measured.										
	Origin and Evolution of the Universe	Identify planets in our solar system and their basic characteristics. Describe the earth's place in the solar system that includes the sun (a star), planets, and many moons. Recognize that the universe contains many billions of galaxies and that each galaxy contains many billions of stars.				•						
		Know the basic characteristics and uses of telescope.Identify major lunar phases.Explain time (days, seasons) using solar system motions.										
Biological Sciences	Organisms and Cells	Classify plants and animals according to the physical characteristics that they share										
		Describe the different resources that plants and animals need to live.		*		\$	\Omega					

		Identify differences in the life cycles of plants and animals										
		Describe common functions living things share to help them function in a specific environment				•	•					
		Construct and interpret models and diagrams of various animal and plant life cycles										
	Genetics	Describe features that are observable in both parents and their offspring										
		Recognize that reproduction is necessary for the continuation of life										
		Identify observable patterns in the physical characteristics of plants or groups of animals										
	Evolution	Identify different characteristics of plants and animals that help some populations survive and reproduce in greater numbers. Describe how environmental changes can cause extinction in plants and animals										
		Describe plant and animal adaptations that are important to survival										
		Compare fossils to one another and to currently living organisms according to their anatomical similarities and differences				\$						
Physical Science	Chemistry	Identify and classify objects based on their observable and measurable physical properties. Compare and contrast solids, liquids, and gases based on their properties	•	\Q		•	•	•	•	•	•	•
		Demonstrate that materials are composed of parts that are too small to be seen without magnification	\$	\Omega	\$	*	•	*	•	•	•	*
		Demonstrate the conservation of mass during physical changes such as melting or freezing										

	Recognize that combining two or more substances may make new materials with different properties									
	Use models to demonstrate the physical change as water goes from liquid to ice and from liquid to vapor									\$
Physic	Explain how an object's change in motion can be observed and measured	\$	\$	•	•	•	•		•	
	Identify types of energy and their ability to be stored and changed from one form to another		\$		•	•				
	Understand that objects that emit light often emit heat							•		
	Apply knowledge of basic electrical circuits to the design and construction of simple direct current circuits. Compare and contrast series and parallel circuits. Demonstrate that magnets have poles that repel and attract each other						•			•
	Demonstrate how vibrating objects make sound and sound can make things vibrate. Demonstrate how light can be reflected, refracted, or absorbed by an object						•	•		•
	Give examples of how energy can be transformed from one form to another	\$		*	*	*		*	\$	*

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Earth Structure, Processes, and Cycles	Describe how landforms are the result of a combination of destructive forces such as erosion and constructive erosion, deposition of sediment, etc.			•	\$						
		Describe the usefulness of Earth's physical resources as raw materials for the human made world.		•	•	•	•					
		Explain how geological processes observed today such as erosion, movement of lithospheric plates, and changes in the composition of the atmosphere are similar to those in the past			•	•						
		Explain the basic components of the water cycle.		*	\ODE	•						
		Differentiate between weather and climate. Explain how the cycling of water, both in and out of the atmosphere, has an effect on climate		•		\$	•					
	Origin and Evolution of the Universe	Provide evidence that the earth revolves around (orbits) the sun in a year's time and that the earth rotates on its axis once approximately every 24 hours.										
Biological Sciences	Organisms and Cells	Describe how life on earth depends on energy from the sun.		•			•					
		Compare and contrast the similarities and differences in life cycles of different organisms.										
		Explain the concept of a cell as the basic unit of life. Compare and contrast plant and animal cells.										
	Genetics	Differentiate between inherited and acquired characteristics of plants and animals										
	Evolution	Describe how organisms meet some of their needs in an environment by using behaviors (patterns of activities) in response to information (stimuli) received from the environment.		•		•	•					

		Give examples of how inherited characteristics (e.g., shape of beak, length of neck, location of eyes, shape of teeth) may change over time as adaptations to changes in the environment that enable organisms to survive.									
Physical Science	Chemistry	Describe how water can be changed from one state to another by adding or taking away heat									
	Physics	Explain how mass of an object resists change to motion	\$	•	•	•	•	•		•	
		Examine how energy can be transferred from one form to another	\$			•	•	•		•	•
		Demonstrate how heat energy is usually a byproduct of an energy transformation	\Q						•		
		Demonstrate how electrical circuits provide a means of transferring electrical energy when heat, light, sound, and chemical changes are produced. Demonstrate how electromagnets can be made and used.							*		
		Compare the characteristics of sound as it is transmitted through different materials. Relate the rate of vibration to the pitch of the sound.							•		

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Origin and Evolution of the Universe	Compare and contrast the size, composition, and surface features of the planets that comprise the solar system as well as the objects orbiting them				•						
		Recognize the role of gravity as a force that pulls all things on or near the earth toward the center of the earth and in the formation of the solar system and the motions of objects in the solar system	*	•	*	•	•	•	*	•	*	*
		Explain why the planets orbit the sun in nearly circular paths				\$						
		Explain how the tilt of the earth and its revolution around the sun cause an uneven heating of the earth which in turn causes the seasons and weather patterns				•						
		Use models to demonstrate that earth has different seasons and weather pattern. Use models to demonstrate that the phases of the moon are a result of its orbit around Earth				•						
Biological Sciences	Organisms and Cells	Describe the similarities and differences of major physical characteristics in plants, animals, fungi, protists, and bacteria.										
		Describe how energy derived from the sun is used by plants to produce sugars (photosynthesis) and is transferred within a food chain from producers (plants) to consumers to decomposers.										
		Recognize that all organisms are composed of cells and that many organisms are unicellular and must carry out all life functions in one cell.										
		Describe basic structures that plants and animals have that contribute to their ability to make or find food and reproduce.					\$					
		Identify examples of unicellular and multicellular organisms.										
		Explain why the details of most cells are visible only through a microscope.										

	Genetics	Understand how theories are developed. Identify questions that can be answered through scientific investigations and evaluate the appropriateness of questions.										
	Evolution	Differentiate between instinctive and learned animal behaviors that relate to survival.										
Physical Science	Chemistry	Distinguish the differences in properties of solids, liquids, and gases. Differentiate between volume and mass. Investigate that equal volumes of different substances usually have different masses.	*	•	•	•	•	•	•	•	•	•
		Compare and contrast pure substances with mixtures.										
		Explain and give examples of how mass is conserved in a closed system.										
		Differentiate between physical changes and chemical changes.										
		Identify characteristic properties of matter that can be used to separate one substance from the other.			•							
	Physics	Explain how changes in motion require a force.	\$	•	•	•	•	•		•	•	•
		Describe energy as a property of objects associated with heat, light, electricity, magnetism, mechanical motion, and sound. Differentiate between potential and kinetic energy.	*	•	•	•	•	•		•	•	*
		Give examples of how heat moves in predictable ways, normally flowing from warmer objects to cooler ones until they reach the same temperature. Explain the effect of heat on particle motion by describing what happens to particles during a phase change.										

Describe how electric current produces magnetic forces and how moving magnets produce electric current. Derive Ohm's Law through investigation of voltage, current, and resistance.					
Demonstrate that heat moves in predictable ways from warmer objects to cooler ones. Investigate that materials may be composed of parts too small to be seen without magnification.					

		WOW! Zone	Avionics	Earth & Weather	River of Knowledge	Energy & Fossils	Kids in the Kitchen	Engineering	Brain Power	Sound & Light	Drive to Excel	InspireWorks
Earth and Space Science	Earth, Processes, and Cycles	Define basic features of the rock cycle. Describe the layers of the earth. Differentiate among the mechanisms by which heat is transferred through the Earth's system.				•						
		Explain land use in relation to soil type and topography.										
		Explain and give examples of how physical evidence, such as fossils and surface features of glaciation support theories that the Earth has evolved over geologic time. Compare geologic processes over time.				•						
		Differentiate among Earth's water systems. Describe the motions of tides and identify their causes.										
		Describe basic elements of meteorology. Explain the relationship between the energy provided by the sun and the temperature differences among water, land and atmosphere.		•								
		Describe the scales involved in characterizing Earth and its atmosphere.Create models of Earth's common physical features.				•						
	Origin and Evolution of the Universe	Explain how gravity is the major force in the formation of the planets, stars, and the solar system. Describe gravity as a major force in determining the motions of planets, stars, and the solar system. Compare and contrast properties and conditions of objects in the solar system to those on Earth.				•						
		Identify a variety of instruments used to gather evidence about the universe. Describe repeating patterns in the Sun-Earth-Moon system and the positions of stars. Relate planetary size and distance in our solar system using an appropriate scale model.										
Biological Sciences	Organisms and Cells	Describe the similarities and differences of physical characteristics in diverse organisms.										
		Describes how organisms obtain and use energy throughout their lives.										

	Explain why the life cycles of different organisms have varied lengths.					
	Explain how cells arise from pre-existing cells.					
	Explain how the cell is the basic structural and functional unit of living things.					
	Identify the levels of organization from cell to organism.					
	Compare life processes (e.g. growth, digestion) at the organism level with life processes at the cellular level.					
	Apply the appropriate models to show interactions among organisms in an environment.					
Genetics	Explain how genetic instructions influence inherited traits. Identify Mendelian patterns of inheritance.					
	Compare sexual reproduction with asexual reproduction.					
	Describe how selective breeding and biotechnology can alter the genetic composition of organisms.					
	Compare and contrast observable patterns in the physical characteristics across families, strains and species.					
Evolutio	Describe how natural selection is an underlying factor in a population's ability to adapt to changes.					
	Explain why the extinction of a species may occur when the environment changes. Explain that mutations can alter a gene and are the original source of new variations in a population.					
	Identify evidence drawn from geology, fossils, and comparative anatomy that provides the basis for the theory of evolution.		•			

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Physical Science	Chemistry	Differentiate between elements, compounds, and mixtures. Identify groups of elements that have similar properties. Explain how materials are characterized by having a specific amount of mass in each unit of volume (density).							
		Identify atoms as the basic building blocks of matter and that elements are composed of one type of atom.							
		Explain how energy transfer can affect the chemical and physical properties of matter.							
		Describe how reactants change into products in simple chemical reactions.							
	Physics	Describe how unbalanced forces acting on an object change its velocity. Analyze how observations of displacement, velocity, and acceleration provide necessary and sufficient evidence for the existence of forces.						*	
		Describe how energy can be changed from one form to another (transformed) as it moves through a system or transferred from one system to another system.	\Phi	•		•		\$	
		and radiation. Explain why heat energy consists of the random motion and vibrations of the particles of matter.							
		Explain how electrical current is produced by the flow of electrons. Explain and demonstrate how electric current produces magnetic forces and how moving magnets produce electric current.							
		Demonstrate that visible light is a mixture of many different colors. Explain the construct of the electromagnetic spectrum. Describe how sound and light energy are transmitted by waves.					*		
		Demonstrate that heat is often produced as energy is transformed through a system.Demonstrate how the transfer of heat energy causes temperature changes.							

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Earth and Space Science	Processes, and	Distinguish between physical and chemical weathering. Compare and contrast the types of energy that drive Earth's systems.										
		Describe renewable and nonrenewable energy resources.										
		Explain how matter on earth is conserved throughout the geological processes over time.		\Oldot		\Omega	\$					
		Explain how the oceans form one interconnected circulation system powered by wind, tides, the Earth's rotation, and water density differences.										
		Explain how the curvature of the earth contributes to climate. Compare and contrast water vapor, clouds, and humidity.										
		Explain changes in earth systems in terms of energy transformation and transport. Explain how satellite images, models, and maps are used to identify										
	Origin and Evolution of the Universe	Explain how light, measured remotely, can be used to classify objects in the universe.										
		Explain measurements and evidence indicating the age of the universe.										
Biologicial Sciences	Organisms and Cells	Explain mechanisms organisms use to adapt to their environment.										
	Genetics	Compare and contrast scientific theories. Know that both direct and indirect observations are used by scientists to study the natural world and universe.										
	Evolution	Explain how reproductive success coupled with advantageous traits over many generations contributes to natural selection.										
Physical Science	Chemistry	Differentiate between mass and weight.		\Q				\ODE				\Q
		Identify characteristics of elements derived from the periodic table	\Omega	\Omega	\Phi	•	\Omega	\Omega	\Omega	\Omega	\Omega	*

	Explain how changes in matter are accompanied by changes in energy.									
	Compare and contrast physical and chemical changes in terms of products.									
Physics	Explain how inertia is a measure of an object's mass. Explain how momentum is related to the forces acting on an object.	*	•	•		•	•		•	
	Identify situations where kinetic energy is transformed into potential energy, and vice versa.	\$	*	•	•	•	•		*	
	Explain how changes in temperature are accompanied by changes in kinetic energy.									
	Compare and contrast atomic properties of conductors and insulators.									
	Explain how physics principles underlie everyday phenomena and important technologies.									