

Teacher: CORE Science Grade 6	Year: 2010-11
Course: Science Grade 6	Month: All Months

A u g u s t	CHARACTERISTICS OF LIFE FUNCTIONS:						
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources
S e p t e m b e r							
	LAB SKILLS/INSTRUMENTS:						
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources
	What is science ?	Scientific Method: Experiments Skills used in science: solving problems	Identify in writing the steps of the scientific method. Identify in writing the steps of problem solving/decision making.	science technology hypothesis variable			MST.I.01.PI.C MATHEMAT ANALYSIS ~ apply mathem knowledge to real-world problems and problems that from the investigation o mathematical using representation such as picture charts, and tab MST.I.01.PI.E SCIENTIFIC INQUIRY ~ c out their resear proposals, recording observations a measurements lab notes, audi tape, computer video tape) to assess the explanation. MST.I.01.PI.F SCIENTIFIC INQUIRY ~

							interpret the organized data answer the res question or hypothesis and gain insight in problem. MST.I.01.PI.F SCIENTIFIC INQUIRY ~ modify their personal understanding phenomena ba on evaluation their hypotheses MST.I.06.PI.B MODEL ~ use models to stud processes that cannot be stud directly (e.g., the real proces too slow, too f or too dangerous for direct observation).
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CHARACTERISTICS OF LIFE FUNCTIONS:

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What is life ?	Basic Needs: living and nonliving Classifying Life: kingdoms	Compare and contrast living and non-living organisms. Identify the five traits of life. Identify basic needs of living organisms. List the four features	trait organism environment cell development classification species kingdom virus vaccine				4.1.0-Living things are both similar to and different from each other and from nonliving things. 4.1.1a-Living things are composed of cells. Cells provide

			scientists use to identify which kingdom an organism belongs to.				structure carry on major functions to sustain life. Cells are usually microscopic in size. 4.1.1d-Single-celled organisms, including humans, are multicellular. 4.1.1e-Cells are organized for more effective functioning. multicellular organisms. Levels of organization for structure and function of a multicellular organism include cells, tissues, organs, and organ systems. 4.1.1h-Living things are classified based on shared characteristics on the cellular and organizational level. In classifying organisms, biologists consider
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								details of internal and external structure. Biological classification systems arranged in general (kingdom) specific (species).
O c t o b e r	CHARACTERISTICS OF LIFE FUNCTIONS:							
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	What is heredity and reproduction?	Heredity and Reproduction: sexual and asexual reproduction Genetics: the study of inheritance	Compare and contrast mitosis and meiosis. Distinguish the difference between asexual and sexual reproduction. Define in writing cloning.	mitosis asexual reproduction sexual reproduction sex cell meiosis fertilization cloning embryo genetics gene DNA variation mutation				4.2.0- Organisms inherit genetic information in a variety of ways that result in continuity of structure and function between parents and offspring. 4.2.1e-In sexual reproduction, offspring are typically genetically different from each parent. 4.3.1b- Changes in the environment

								<p>condition can affect survival individual organism with a particular trait. Sm differences between parents a offspring accumul successi generatio that descenda are very different their ancestor Individual organism with cert traits are likely to survive a have offspring individual without t traits.</p> <p>4.4.1a-S organism reproduc asexually Other organism reproduc sexually Some organism reproduc both sex and asex 4.4.2b-In</p>
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								<p>sexual reproduction. In sexual reproduction, a sperm and an egg each carry one set of chromosomes, or half of the genetic information needed for the new individual. Therefore, a fertilized egg contains two sets of chromosomes, one from each parent.</p> <p>4.4.4b-In mitosis, a type of cell division, the chromosomes are duplicated and then separated into two identical daughter cells. In meiosis, a type of cell division, the chromosomes are duplicated and then separated into four daughter cells, each with half the genetic information of the parent cell. This process results in the production of gametes, which are used in sexual reproduction.</p> <p>4.2.2a-In asexual reproduction, the genetic material is passed from one parent to one offspring. This process results in the production of offspring that are genetically identical to the parent.</p> <p>4.3.1a-The process of natural selection is a mechanism of evolution. It is the process by which certain traits become more or less common in a population over time. This process is driven by the struggle for survival, in which individuals with certain traits are better suited to their environment and therefore more likely to survive and reproduce.</p>
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							sexual reproduction and mutations have given rise to a variety of traits within species.
CHARACTERISTICS OF LIFE FUNCTIONS:							
Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What affects diversity and adaptations ?	Diversity of Life: organisms adapt to their environment	Appreciate the variety of organisms. Define biodiversity. List ways in which organisms adapt to their environments. Describe the importance of the fossil record.	biodiversity adaptation natural selection common ancestor fossil fossil record captive breeding geologic time scale mass extinction				4.3.2b- Extinction of a species occurs when the environment changes and the adaptations characteristic of a species are insufficient to permit its survival. Extinction of species is common. Fossils are evidence of a great variety of species that existed in the past. 4.3.2d- Although time needed for change, a species usually gives rise to some species of insects, bacteria, and other organisms.

								<p>significant change i a few ye 4.4.3c- Various structure function change a organism goes thro its life cy 4.4.3f-A individu organism ages, var body structure function change. 4.4.4a-In multicel organism cell divis is respon for grow maintena and repa some on celled organism cell divis is a meth asexual reproduc 4.5.1 a- Animals plants ha great var of body and inter structure contribu their abi maintain balanced condition</p>
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								4.5.1b-A organism's overall behavior, plan and environmental determinants, way that organism carries out life processes
November	ECOLOGY:							
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Describe the relationships among living things. How does energy travel through the ecosystem ?	Relationships Among Living Things: Organization Energy Through the Ecosystem	Identify the living and nonliving factors in an ecosystem. Examine relationships among living things.	ecosystem ecology biosphere biotic factor abiotic factor population community limiting factor niche habitat endangered species threatened species producer consumer decomposer				4.5.1g-The survival of an organism depends on its ability to respond to its external environment. 4.6.1b-Food webs identify feeding relationships among producers, consumers, decomposers in an ecosystem. 4.7.0-Human decisions and activities have had a profound impact on the physical and living environment. 4.7.1c-In an environment, organisms interact with one another.

								<p>many way</p> <p>Relationsh</p> <p>among</p> <p>organisms</p> <p>be compet</p> <p>harmful, o</p> <p>beneficial.</p> <p>Some spec</p> <p>have adap</p> <p>be depend</p> <p>upon each</p> <p>with the re</p> <p>that neither</p> <p>could surv</p> <p>without th</p> <p>other.</p> <p>4.5.1d-The</p> <p>methods f</p> <p>obtaining</p> <p>nutrients v</p> <p>among</p> <p>organisms</p> <p>Producers</p> <p>as green p</p> <p>use light e</p> <p>to make th</p> <p>food.</p> <p>Consumer</p> <p>such as</p> <p>animals, ta</p> <p>energy-ric</p> <p>foods.</p> <p>4.5.1e-</p> <p>Herbivore</p> <p>obtain ene</p> <p>from plant</p> <p>Carnivore</p> <p>obtain ene</p> <p>from anim</p> <p>Omnivore</p> <p>obtain ene</p> <p>from both</p> <p>plants and</p> <p>animals.</p> <p>Decompos</p> <p>such as ba</p>
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								and fungi, obtain energy by consuming wastes and dead organisms. 4.5.2a-Food provides molecules that serve as fuel and building material for organisms living things including plants, mushrooms release energy from their food using it to power their life processes. 4.6.1a-Energy flows through an ecosystem in one direction usually from the Sun, through producers to consumers then to decomposers. This process may be visualized as a food chain or energy pyramids. 4.6.2c-Green plants are producers of food which is used directly or indirectly by consumers. 4.7.1a-A
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								<p>population consists of individual species that are found together at a given time and place. Population living in one place forms a community. The community and the physical factors with which it interacts compose an ecosystem.</p> <p>4.7.1b-Give an example of a population that has adequate resources and no disease, predators, or other factors that limit population growth (including humans). Describe how the population might increase. Identify the factors that limit the growth of resources and habitat destruction. Identify other factors that limit growth, such as predation, disease, climate, and so on. Explain how the growth of a population affects the ecosystem.</p> <p>4.7.1d-Some microorganisms are essential for the survival of other living things.</p> <p>4.7.1e-Describe the environmental factors that limit population growth.</p>
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								<p>may contain dangerous levels of substances (pollutants) that are harmful to organisms. Therefore, good health of the environment and individuals requires the monitoring of soil, air, and water, and taking steps to keep them clean.</p> <p>4.7.2a-In an ecosystem, balance is the result of interactions between community members and their environment.</p> <p>4.7.2c-Overpopulation by any species impacts the environment due to the increased demand for resources. Human activities can bring about environmental degradation through resource acquisition and urban growth. Land-use decisions,</p>
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							waste disposal etc.
ENERGY:							
Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How can we conserve Earth's natural resources ?	Resources:Renewable and Nonrenewable Environment: Pollution	Give examples of how resources are used. Describe how people affect the environment. Analyze the problems of solid waste. Compare and contrast different types of pollution.	natural resource renewable resource nonrenewable resource landfill pollutant acid rain solid waste recycling life-cycle analysis				4.4.1b-Fossil fuels contain stored solar energy and are considered nonrenewable resources. They are a major source of energy in the United States. Solar energy, wind, moving water, and biomass are some examples of renewable energy resources. 4.7.1e-The environment may contain dangerous levels of substances (pollutants) that are harmful to organisms. Therefore, good health of the environment and individuals requires the monitoring of soil, air, and water, and taking steps to keep them

								<p>4.7.2a-In ecosystem balance is result of interaction between community members and their environment.</p> <p>4.7.2c-Overpopulation by any species impacts the environment due to the increased demand of resources.</p> <p>Human activities bring about environmental degradation through resource acquisition, urban growth, land-use decisions, waste disposal, etc.</p> <p>4.7.2d-Since the Industrial Revolution, human activities have resulted in major pollution of air, water, and soil. Pollution has cumulative ecological effects such as acid rain, global</p>
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								warming, ozone depletion. survival of living things on our planet depends on conservation and protection of Earth's resources.
D e c e m b e r	MATTER:							
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	What is matter ?	Matter: Atom Parts Matter: Types	Define matter. Describe the parts of an atom and their charges. Give examples of elements, compounds, and mixture. Define synthetic elements.	matter atom proton neutron electron element periodic table compound chemical formula mixture				4.3.1a-Substances have characteristic properties. Some of the properties include color, odor, phase, room temperature, density, solubility, heat and electrical conductivity, hardness, boiling and freezing points. 4.3.0-Matter is made of particles whose properties determine observable characteristics of matter and its reactions.

								<p>4.3.1g- Character properties be used identify different material. separate mixture substance into its compon For exam iron can removed a mixtur means o magnet. insoluble substance be separ from a soluble substance such processe filtration settling, evaporat 4.3.2a-D a physic change a substance keeps its chemical composi and prop ties. Example physical changes include freezing melting, condens boiling,</p>
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								evaporat tearing, crushing 4.3.2b- Mixtures: physical combina of mater and can separate physical means. 4.3.2c-D a chemio change, substanc react in characte ways to new substanc with diff physical chemica propertie Example chemica changes include burning wood, cooking egg, rust of iron, a souring milk. 4.3.2d- Substanc are often placed in categorio they reac similar v Example include metals,
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								<p>nonmetals and noble gases.</p> <p>4.3.3a-All matter is made up of atoms. Atoms are far too small to see with a light microscope.</p> <p>4.3.3b-Atoms and molecules are in perpetual motion. At higher temperatures, the greater the motion.</p> <p>4.3.3c-Atoms may join together to form well-defined molecules. Molecules may be arranged in regular geometric patterns.</p> <p>4.3.3d-Interactions among atoms and/or molecules result in chemical reactions.</p> <p>4.3.3e-Interactions among atoms and/or molecules result in chemical reactions.</p>
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								<p>4.3.3f-T are more 100 elemen Element combine multitud ways to produce compoun that acco for all liv and nonl substanc Few elemen are found their pur form.</p> <p>4.3.3g-T periodic is one us model fo classifyi elements periodic can be u predict propertie elements (metals, nonmeta noble ga</p>
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J a n u a r y	ENERGY:						
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources
	Define properties and changes to matter.	Properties and change	Define physical and chemical properties of matter. Compare and contrast acids and bases. Identify the main ideas in	physical property density phases of matter chemical property physical change chemical			4.3.1a-Substan have character propert Some of these propert include odor, ph

			scientific writings. Discuss how physical and chemical changes affect the world we live in.	change				at room temperature, density, solubility, heat and electrical conductivity, hardness, boiling and freezing points. 4.3.1c-T motion of particles helps to explain phases (states) of matter as well as changes from one phase to another. phase in which matter exists depends on the attractive forces among its particles. 4.3.1e-A liquid has a definite volume, takes the shape of its container. 4.3.1h-Density can be described as the amount of matter that is in a given amount of space. It
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F e b r u a r y								objects of equal volume, one has more mass, the other with more mass is denser.
	FORCES AND MOTION							
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	How is mass, weight, and gravity measured ?	Relationships among mass, weight, and gravity	Investigate the effects of gravity. Compare and contrast weight and mass. Distinguish methods of measuring weight and mass.	gravity weight mass				4.5.2a-Earth and space science. An object exerts a gravitational force on every other object. Gravitational force depends on the mass of the objects and on how far apart they are. Gravity is one of the forces that act on objects in motion. Gravity affects the motion of objects in free fall and projectile motion.
F e b r u a r y	ENERGY							
	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	What is energy ?	How energy changes Thermal energy Potential and kinetic	Define energy and describe the forms that it takes. Compare and contrast potential and kinetic energy.	energy kinetic energy potential energy thermal energy heat				4.3.3b-Atomic and molecular motion. All matter is in motion. The greater the temperature, the greater the motion.

			kinectic energy. Differentiate among thermal energy, heat, and temperature. Explain how solar energy helps conserve Earth's limited resources.	radiation conduction convection solar energy				4.4.1c-Mo activities i everyday l involve on form of en being transforme into anothe For exampl the chemica energy in gasoline is transforme into mecha energy in a automobile engine. En in the form heat, is aln always on the produc energy transforma 4.4.1d-Dif forms of e include he light, elect mechanica sound, nuc and chemi Energy is transforme many way 4.4.1e-Ene can be considered be either k energy, wh is the ener motion, or potential energy, wh depends on relative position. 4.4.2a-Hea
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c h	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	What is electricity ?	Electricity: Forms Magnetism: Lines	Describe how the structure of the atom helps produce electricity. Classify static electricity as a form of potential energy. Distinguish between direct and alternating current. Investigate the relationship between magnetism and electricity. Describe how a compass works. Compare and contrast ways of generating electricity.	electrical energy static electricity circuit switch magnetic field electromagnet generator turbine				4.4.4d- Electric energy can be produced from a variety of energy sources and can be transformed into almost any other form of energy. 4.4.4e- Electric circuits provide means of transferring electrical energy. 4.4.4f- Without touching them, materials have been used to transfer electrical energy. 4.4.4g- Without direct contact, magnets can attract or repel other materials.

								attracts certain material either at or repels other magnets attractive force of magnet greatest poles 4.5.2b-Electric currents magnets exert a force on each other.
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ASTRONOMY/SPACE:

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
Appreciate the solar system and beyond.	Solar System: Planets Earth: Moon Stars and Galaxies:	Explain how the tilt of Earth's axis causes seasons. Analyze what causes phases of the moon. Compare and contrast objects in the solar system. Recognize bias in science articles.	rotation revolution eclipse solar system satellite constellation galaxy				4.1.1a-E-Sun is an average-star. There is more than a million times greater in volume than Earth. 4.1.1c-T-Sun and planets together revolve around in the major bodies in solar system. Other members include comets, moons, and

								<p>asteroids Earths or nearly circular. 4.1.1d- Gravity is force that keeps plan in orbit around the Sun and Moon in around the Earth. 4.1.1e-M objects in solar sys have a re and predictabl motion. 'M motions explain s phenomen a day, a phases o Moon, eclipses, tides, me showers, comets. 4.1.1g-M are seen reflected light. Our Moon or Earth, w Earth or the Sun. Moons p as observ from Ear are the re of seeing different tions of t</p>
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								lighted a the Moon surface. phases re in a cycl pattern in about on month. 4.1.1h-T apparent motions Sun, Mo planets, a stars acro the sky c explaine Earths rotation revolutio Earths rotation causes th length of day to be approxin 24 hours rotation causes th Sun and Moon to appear to along the eastern horizon a set along western horizon. Earths revolutio around th Sun defi the lengt the year 365 1/4 d 4.1.1i-T of Earths
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								of rotation and the revolution Earth and the Sun seasons Earth. The length of daylight varies depending latitude and season. 4.1.1j-TE shape of Earth, the other planets and stars nearly spherical
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GEOLOGY:

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
Appreciate Earth's materials	Minerals Igneous and Sedimentary Rocks Metamorphic Rock Rock Cycle	Compare and contrast minerals and rocks. Identify minerals using physical properties. Compare and contrast extrusive and intrusive igneous rocks. Investigate how different types of sedimentary rocks form. Describe the	mineral rock crystal gem ore igneous extrusive intrusive sedimentary rock fossil fuel metaphoric rock foliated non-foliated rock cycle				4.2.1e-Rocks are composed of minerals. Only a few rock-forming minerals make up most of the rocks of the Earth. Minerals are identified on the basis of their physical properties such as color, hardness, and reaction to acid. 4.2.1f-Fossils are usually found in sedimentary

			conditions needed to form metamorphic rock. Analyze how rocks change in the rock cycle.					rocks. For can be us study pas climates environm
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May

EARTH'S STRUCTURE

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
The Earth is alive and dynamic.	Earthquakes and Volcanoes Layers of the Earth Plate Tectonics	Describe the interior of Earth. Determine what happens during an earthquake. Investigate how volcanoes erupt and where they occur. Investigate the evidence for the theory of continental drift. Determine how Earth's surface is changed by plate tectonics.	earthquake fault focus epicenter volcano mantle inner core outer core continental drift plate seafloor spreading convection currents plate tectonics				4.2.2a-T interior Earth is Heat flo and moveme material within E cause sections Earths c to move may res earthqua volcanic eruption the crea of moun and oce basins. 4.2.2b- Analysis earthqua wave da (vibratio disturba leads to conclu- that ther layers w Earth. T layersÃ

								crust, m outer co and inne coreÃ‘h distinct properti 4.2.2c- Folded, tilted, faulted, displace rock lay suggest crustal moveme 4.2.2d- Contine fitting together puzzle p and foss correlati provided initial evidenc continen were on together 4.2.2e-T Theory Plate Tectonic explains the ""so lithosph consists series of plates th ""float"" the parti molten section mantle. Convect cells wi the man
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							may be driving for the movement of the plates. 4.2.2f-P may collide, move apart, or slide past one another. Most volcanic activity and mountain building occur at these plate boundaries. These plates often result in earthquakes. 4.2.1c-T rock at Earth's surface is a nearly continuous shell around Earth called the lithosphere.
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WATER

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
Appreciate the importance of water.	Recycling water The Water Cycle Oceans Earth shaped by water	Investigate how water moves through Earth and its atmosphere. Describe what ground water is. Explain how	evaporation condensation precipitation water cycle groundwater deposition runoff erosion meander salinity				4.2.1d-T majority of the lithosphere is covered by relatively thin layers of water called the hydrosphere.

			water changes Earth's surface. Determine how rivers and floods move sediment. Determine why oceans are salty. Compare and contrast currents, waves, and tides. Discuss the importance of oceans as resources. Describe sources of ocean's pollution.	current wave tide				4.2.1j-W circulate through atmosphere lithosphere and hydrosphere in what known as water cycle 4.2.1g-T dynamic processes that wear away Earth's surface include weathering and erosion 4.2.1h-T process weathering breaks down rocks to sediment Soil composed of sediment organic material water, air.
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REVIEW

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards

EARTH'S ATMOSPHERE

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
Understanding the Earth's Atmosphere	Layers of the atmosphere Weather Climate	Analyze the makeup of the atmosphere.	atmosphere troposphere stratosphere weather				4.2.1a-N all the atmosphere confined

			<p>Identify parts of the atmosphere. Determine the effects of air pressure. Discuss the causes of weather. Compare and contrast different types of weather. Explain how scientists forecast the weather. Describe climate. Analyze how people affect Earth's climate.</p>	<p>wind air mass front meteorologist climate global warming</p>				<p>thin shell surrounding Earth. The atmosphere is a mixture of gases, including nitrogen and oxygen with small amounts of water vapor, carbon dioxide, and other trace gases. The atmosphere is stratified into layers, each having different properties. Nearly all weather occurs in the lowest layer of the atmosphere.</p> <p>4.2.1b-A altitude increases and pressure decreases.</p> <p>4.2.2i- Weather describes the condition of the atmosphere at a given location for a short period of time.</p> <p>4.2.2j-Climate is the characteristic weather that prevails for</p>
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								<p>season to season and year to year. 4.2.2k-TI uneven heating of Earth's surface is the cause of weather. 4.2.2l-Air masses form when air remains stationary over a large section of Earth's surface and takes on characteristic conditions of temperature and humidity from that location. Weather conditions at a location are determined primarily by temperature, humidity, pressure, and masses of air that move over that location. 4.2.2m-Microclimate is local weather conditions that change and are caused by local movements of air masses. 4.2.2n-TI Air masses move and determine prevailing winds and</p>
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								upper air currents. 4.2.2o-Fronts are bound between masses. Precipitation is likely to occur at the boundaries. 4.2.2p-High pressure systems generally bring fair weather. Low pressure systems usually bring cloudy, unstable conditions. The general movement of highs and lows is from west to east across the United States. 4.2.2q-Hazardous weather conditions include thunderstorms, tornadoes, hurricanes, storms, and blizzards. Humans prepare for and respond to these conditions given sufficient
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								<p>warning.</p> <p>4.2.2r-</p> <p>Substance</p> <p>enter the</p> <p>atmosphere</p> <p>naturally</p> <p>from human</p> <p>activity. Some</p> <p>of these</p> <p>substances</p> <p>include dust</p> <p>from volcanic</p> <p>eruptions,</p> <p>greenhouse</p> <p>gases such as</p> <p>carbon</p> <p>dioxide,</p> <p>methane,</p> <p>water vapor.</p> <p>These</p> <p>substances</p> <p>affect weather</p> <p>climate, and</p> <p>living things.</p>
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