

Qtr	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
1	<p>OBSERVING: K-1 <i>Weather Patterns and Items in our Environment</i></p>	<p>OBSERVING & CLASSIFYING: 1-1 <i>Plants and Animals Seasons & Weather</i></p>	<p>LIFE CYCLES: 2-1 <i>Complex Life Cycles</i></p>	<p>PLANTS & ANIMALS: 3-1 <i>Structures to Survive</i></p>	<p>CELLS: 4-1 <i>Plants versus Animals FOSSILS & EVOLUTION</i></p>	<p>HUMAN SYSTEMS: 5-1 <i>Human Tissues, Organs, Systems & Heredity</i></p>	<p>MATTER: 6-1 <i>Properties of and Changes in Matter</i></p>
	<p>Scientific Inquiry/TECH: Interdependence: living/nonliving</p> <p>Forces Shape the Earth: observing daily weather Nature of Matter: classify physical properties of general items in our environment</p>	<p>Scientific Inquiry/TECH: Classification: plants and animals Unity & Diversity: simple structures (root, stem, leaves) and physical characteristics of plants</p> <p>Forces Shape the Earth: observing daily weather & connecting it to the seasons</p>	<p>Scientific Inquiry/TECH: Classification: more complex life cycles; different animals = different life cycles</p>	<p>Scientific Inquiry/TECH: Interdependence: plants and animals depend on each other Cells, Tissues, Organs & Systems: structures to survive (feet, beaks, plant parts) Unity & Diversity: adaptations in different environments</p>	<p>Scientific Inquiry/TECH: Cells, Tissues, Organs & Systems: plant/animal cells differ Biological Evolution: fossil formation, ancient and current plants and animals are related Heredity: evolved traits for plants and animals</p>	<p>Scientific Inquiry/TECH: Cells, Tissues, Organs & Systems: organ systems in human body Heredity: physical traits that connect humans in families</p>	<p>Scientific Inquiry/TECH: Nature of Matter: properties of matter; elements/atoms; Periodic table, physical & chemical properties/reactions</p>
2	<p>OBSERVING: K-2 <i>Living vs. Non-living</i></p>	<p>LIFE CYCLES: 1-2 <i>Living Things Grow, Change and Die</i></p>	<p>HABITATS & ECOSYSTEMS 2-2</p>	<p>FORCES: 3-2 <i>Simple Machines Do Work</i></p>	<p>HAWAII'S ENVIRONMENT: 4-2 <i>Physical and Living Systems</i></p>	<p>GLOBAL ENVIRONMENT & ECOSYSTEMS: 5-2 <i>Energy Cycles Through Ecosystems</i></p>	<p>RELATED FORCES: 6-2 <i>Electricity and Magnetism</i></p>
	<p>Scientific Inquiry/TECH: Interdependence: living/nonliving (once-living) similarities & differences, plants & animals Heredity: offspring and parents</p> <p>Nature of Matter: classify physical properties of living and nonliving items</p>	<p>Scientific Inquiry/TECH: Classification: simple life cycles, different plants = different life cycles Cycles of Matter & Energy: living organisms use energy (food chains) Heredity: adaptations to survive</p>	<p>Scientific Inquiry/TECH: Interdependence: habitats & ecosystems, food chain/web Unifying Concepts: environmental changes affect living things Unity & Diversity: living things have survival characteristics</p>	<p>Scientific Inquiry/TECH: Forces & Motion: simple machines include levers, wedges, pulleys, screws Push/pull motion and trajectory can be measured The Universe: mass and gravity affect motion and are measured (spring scales)</p>	<p>Scientific Inquiry/TECH: Unity & Diversity: environment – introduced versus native species Conservation Interdependence: environmental conditions affect living things, organisms respond to each other/their environment</p> <p>Forces Shape the Earth: fast and slow processes on earth's crust; Specific to hot spots, formation and erosion of the HAWAIIAN ISLANDS</p>	<p>Scientific Inquiry/TECH: Cycles of Matter & Energy: living/nonliving matter interact in the environment Interdependence: matter/energy cycle through food chains, food webs and through ecosystems</p>	<p>Scientific Inquiry/TECH: Forces & Motion: complex electrical circuits (parallel and series) produce different strengths of magnetic fields Electrical circuits create magnetic fields - electricity & magnetism are related (electromagnets and motors)</p>

3	<p>OBSERVING: K-3 <i>Objects in Our Sky</i></p>	<p>MATTER: 1-3 <i>What is Matter?</i></p>	<p>ROCKS & MINERALS: 2-3 <i>How Are Earth Materials Formed?</i></p>	<p>FORMS OF ENERGY: 3-3 <i>Light, Heat and Sound</i></p>	<p>MATTER: 4-3 <i>Atoms and Electricity</i></p>	<p>LIGHT & LENSES: 5-3 <i>Telescopes</i> OUR SOLAR SYSTEM</p>	<p>ENERGY: 6-3 <i>Transfer and Transformation</i></p>
	<p>Scientific Inquiry/TECH: <u>The Universe:</u> celestial objects in the sky (moon, sun, stars) <u>Nature of Matter:</u> classify physical properties</p>	<p>Scientific Inquiry/TECH: <u>Nature of Matter:</u> matter & states of matter; matter can change physically</p>	<p>Scientific Inquiry/TECH: <u>Earth Materials:</u> Earth is made of different materials; rocks are formed with minerals</p>	<p>Scientific Inquiry/TECH: <u>Energy & Transformation:</u> light & heat from sun; light, heat & sound are forms of energy <u>Waves:</u> light and sound</p>	<p>Scientific Inquiry/TECH: <u>Nature of Matter:</u> atoms have a structure that allows materials to combine; physical and chemical reactions create/destroy matter <u>Energy & Transformation:</u> electron movement is the reason for electrical currents. Simple circuits with switches.</p>	<p>Scientific Inquiry/TECH: <u>Earth in the Solar System:</u> sun, planets, other objects in the solar system revolve around the sun; <u>Waves:</u> astronomers use telescopes; light, lenses & telescopes; light--reflect, refract, absorb</p>	<p>Scientific Inquiry/TECH: <u>Energy & Transformation:</u> forms of energy, transfer, transform, conserved; heat – conduction, radiation, convection <u>Waves:</u> Electromagnetic spectrum <u>Forces & Motion:</u> forces affect objects (friction, kinetic/potential energy)</p>
4	<p>OBSERVING: K-4 <i>Gravity</i></p>	<p>WATER CYCLE: 1-4 <i>Sun and Weather Work Together</i></p>	<p>NATURAL RESOURCES: 2-4 <i>Conservation and Pollution</i></p>	<p>EARTH FORCES: 3-4 <i>The Water Cycle Forms and Shapes Earth Materials</i></p>	<p>OUR SOLAR SYSTEM: 4-4 <i>Movements of the Earth, Moon and Sun</i></p>	<p>LITHOSPHERE: 5-4 <i>Earth's Internal Processes Change the Earth's Surface</i></p>	<p>ENERGY and the ENVIRONMENT 6-4</p>
4	<p>Scientific Inquiry/TECH: <u>Nature of Matter:</u> <u>Forces & Motion:</u> classify physical properties of objects: objects fall to the ground (gravity) KEIKI PROJECT</p>	<p>Scientific Inquiry/TECH: <u>The Universe:</u> sun drives the water cycle <u>Forces Shape the Earth:</u> water cycle creates weather KEIKI PROJECT</p>	<p>Scientific Inquiry/TECH: <u>Earth Materials:</u> natural resources, conservation & pollution <u>Forces & Motion:</u> magnets – bridging activity – inquiry-based KEIKI PROJECT</p>	<p>Scientific Inquiry/TECH: <u>Earth Materials:</u> weathering/erosion changes the surface of the earth <u>Forces Shape the Earth:</u> the water cycle is related to weather and climate The water cycle contributes to weathering and erosion KEIKI PROJECT</p>	<p>Scientific Inquiry/TECH: <u>The Universe:</u> movements of the sun, moon & constellations <u>Forces of the Universe:</u> Earth moves with rotation (day & night); solar system has sun, gravity affects Earth, moon CULMINATING PROJECT:</p>	<p>Scientific Inquiry/TECH: <u>Forces Shape the Earth:</u> fast processes on earth's crust are driven by internal forces; (plate tectonics, volcanoes, earthquakes, tsunamis – <u>ONLY INTRO</u> – 8th grade covers in detail) CULMINATING PROJECT:</p>	<p>Scientific Inquiry/TECH: <u>Cycles of Matter & Energy:</u> energy and the environment <u>Earth Materials:</u> natural resources can supply energy to do work <u>Forces of the Universe:</u> sun's energy can be used/converted into useable electrical energy CULMINATING PROJECT:</p>

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