| Grade 6 YAG | | | | | | | |
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| | Book | Umbrella | Chapter/ | Weekhy Tenie | Big Idea Question for | Ferential Question for Lesson | |
| Weeks | BOOK | Торіс | Lesson | Weekly Topic | Chapter | Essential Question for Lesson | |
| Week 1 Week 2 | 0 20 10 | Case Study | | Meeting Students! | | | |
| Week 3 | 0.20.10 | | Ch. 1, L.1 | Characteristics of Life | What are Living Things and How Can They be Classified? | What characteristics do all living things share? | |
| | | | Ch. 1, L.3 | Exploring Life | | How did microscopes change our ideas about living things? What are the types of | |
| Week 4 Week 5 | | LS: Cell | Ch. 2, L.1 | Classification & Cell and Life | How do the structures and processes of a cell enable it to survive? | microscopes and how do they compare? How did scientists' understanding of cells develop? What basic substances make up a cell? | |
| | d Function | | Ch. 2, L.2 | The Cell | | How are prokaryotic and eukaryotic cells similar, and how are they different? What | |
| Week 6 Week 7 | Structure and | | Ch. 2, L.3 | Cells and Energy | | do the structures in a cell do? How does a cell obtain energy? How do some cells make food molecules? | |
| Week 8 | F: Life: Struc | | Ch. 3, L.1 Ch. 4, L.1 | Cell Cycle/Division; Sexual Reproduction | How can one cell become a multicellular organism? Why do living things reproduce? | What are the phases of the cell cycle? Why is the result fo the cell cycle important?; What is sexual reproduction and why is it beneficial? What is the order of the phases of meiosis and what happens during each phase? Why is meiosis important? | |
| Week 9 | | LS: Cellular Reproduction | Ch. 4, L.2 | Asexual Reproduction | Why do living things reproduce? | What is asexual reproduction and why is it beneficial? How do the types of asexual reproduction differ? | |
| Week 10 | | | Ch. 3, L.2 | Levels of Organization | How can one cell become a multicellular organism? | How do unicellular and multicellular organisms differ? How does cell differentiation lead to the organization wihin a multicelluar organism? | |
| Week 11 | | | Ch. 11, L.1 | What Defines an Animal? | What are the major groups of animals and how do they differ? | What characteristics do all animals have? How are animals classified? | |
| Week 12 | H: Animals | LS: Structure and Function | Ch. 11, L.3 | Phylum Chordata | | What are the characteristics of all chordates? What are the characteristics of all vertebrates? How do the classes of vertebrates differ? | |
| Week 13 | Ξ | | Ch. 12, L.1 | Support, Control, and Movement | Why do animals have different structures that perform similar functions? | How are the types of support alike and how are they different? How do the types of control compare and contrast? How do the types of movement compare and contrast? | |
| Week 14 | STEM | Project STEM | | Design Prosthetic Device | Project STEM | | |
| Week 15 | - | | Ch. 3, L.1 | What is a Mineral? | What are minerals and why are they useful? | What is a mineral? What are the common rock-forming minerals? How do minerals form? Why is it necessary to use more than one property for mineral identification? | |
| Week 16 | - | | Ch. 3, L.2 | How are Minerals Identified? | How do the three main | What properties can you use to identify minerals? | |
| Week 17 | - | and Rocks | Ch. 4, L.2 | Igneous Rocks | types of rocks form? | How do igneous rocks form? What are the common types of igneous rocks? How do sedimentary rocks form? What | |
| Week 18 | g Earth | | Ch. 4, L.3 | Sedimentary Rocks | | ar ethe three types of sedimentary rocks? | |
| Week 19 | rinç | | | | | | |
| · | xplo | | Ch. 4, L.4 | Metamorphic Rocks | | How do metamorphic rocks form? How do types of metamorphic rocks differ? | |
| Week 20 | A: Exploring | | Ch. 4, L.1 | Rocks and the Rock Cycle | What natural processes | do types of metamorphic rocks differ? How are rocks classified? What is the rock cycle? How does weathering break down or change rock? How do mechanical | |
| Week 20 Week 21 | | | | | What natural processes break down rocks and begin soil formation? | do types of metamorphic rocks differ? How are rocks classified? What is the rock cycle? How does weathering break down or change rock? How do mechanical processes break big rocks into smaller pieces? How do chemical processes change rocks? | |
| | | | Ch. 4, L.1 | Rocks and the Rock Cycle | break down rocks and begin | do types of metamorphic rocks differ? How are rocks classified? What is the rock cycle? How does weathering break down or change rock? How do mechanical processes break big rocks into smaller pieces? How do chemical processes | |
| Week 21 | Ä | ES: Weathering and Soil | Ch. 4, L.1 Ch. 5, L.1 | Rocks and the Rock Cycle Weathering | break down rocks and begin | do types of metamorphic rocks differ? How are rocks classified? What is the rock cycle? How does weathering break down or change rock? How do mechanical processes break big rocks into smaller pieces? How do chemical processes change rocks? How is soil created? What are soil horizons? Which soil properties can be observed and measured? How are soils and soil conditions related to life? What are the main sources of renewable energy? What are the advantages and disadvantages of using renewable energy resources? what can individuals do to encourage the use of renewable energy resources? | |
| Week 21 Week 22 | Ä | ES: Weathering and Soil ES: Natural Resources | Ch. 4, L.1 Ch. 5, L.1 Ch. 5, L.2 | Rocks and the Rock Cycle Weathering Soil Renewable/Nonrenewable | break down rocks and begin soil formation? Why is it important to manage natural resources | do types of metamorphic rocks differ? How are rocks classified? What is the rock cycle? How does weathering break down or change rock? How do mechanical processes break big rocks into smaller pieces? How do chemical processes change rocks? How is soil created? What are soil horizons? Which soil properties can be observed and measured? How are soils and soil conditions related to life? What are the main sources of renewable energy? What are the advantages and disadvantages of using renewable energy resources? what can individuals do to encourage the use of renewable energy resources? Why is land considered a resource? What are the advantages and disadvantages of using land as a resource? How can individuals help manage land resouces wisely? | |
| Week 21 Week 22 Week 23 | | ES: Weathering and Soil ES: Natural Resources | Ch. 4, L.1 Ch. 5, L.1 Ch. 5, L.2 Ch. 18, L.2 | Rocks and the Rock Cycle Weathering Soil Renewable/Nonrenewable Resouces | break down rocks and begin soil formation? Why is it important to manage natural resources | do types of metamorphic rocks differ? How are rocks classified? What is the rock cycle? How does weathering break down or change rock? How do mechanical processes break big rocks into smaller pieces? How do chemical processes change rocks? How is soil created? What are soil horizons? Which soil properties can be observed and measured? How are soils and soil conditions related to life? What are the main sources of renewable energy? What are the advantages and disadvantages of using renewable energy resources? what can individuals do to encourage the use of renewable energy resources? Why is land considered a resource? What are the advantages and disadvantages of using land as a resource? How can individuals help | |

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| | | | | 1 1 IForms of Fnerov' Potential & Kinetici | | What is energy? What are potential and |
| | | | Ch. 5, L.1 | | | kinetic energy? How is energy related to work? What are different forms of |
| Week 28 | | | | | are energy resources? | energy? |
| | | | | | | What is the law of conservation of |
| | | | | | | energy? How does friction affect energy |
| | | | Ch. 5, L.2 | Energy Transformation | | transformations? How are different types |
| Week 29 | | PS: Energy | | | | of energy used? |
| | | | | | How can thermal energy be | How are temperature and kinetic energy |
| | | | Ch. 6, L.1 | Thermal Energy | used? | related? How do heat and thermal |
| Week 30 | | | | | | energy differ? |
| | | | | - · · · · · | | How are temperature and kinetic energy |
| Maak 24 | | | Ch. 6, L.1 | Temperature and Heat | | related? How do heat and thermal |
| Week 31 | | | | | | energy differ? What is a substance? How do atoms of |
| | | | | | What is matter and how | different elements differ? How do |
| | ter | | Ch. 7, L.1 | Classifying Matter | does it change? | mixtures differ from substances? How |
| Week 32 | /ati | PS: Matter | | | le contratigo i | can you classify matter? |
| | ¶ N | | | | | What are some physical properties of |
| | an | | Ch. 7, L.2 | | | matter? How are physical properties |
| Week 33 | rgy | | | | | used to separate mixtures? |
| | Ene | | Ch. 7, L.3 | | | How can a change in energy affect the |
| | ш | | | | | state of matter? What happens when |
| Maak 24 | _ | | | | | something dissolves? What is meant by conservation of mass? |
| Week 34 | | | | | | What is a chemical property? What are |
| | | | Ch. 7, L.4 | Chemical Properties and Changes | | some signs of chemical change? Why |
| | | | | | | are chemical equations useful? What are |
| | | | | | | some factors that affect the rate of |
| Week 35 | | | | | | chemical reactions? |
| | | | | | What physical changes and | How do particles move in solids, liquids, |
| | | | Ch. 8, L.1 | Solids, Liquids, and Gases | energy changes occur as | and gases? How are the forces between |
| | | | | | matter goes from one state | partices different in solids, liquids, and |
| Week 36 | | PS: States of | | | to another? | gases? |
| | | Matter | | | | How is temperature related to particle |
| | | | | Changes in States | | motion? How are temperature and |
| | | | Ch. 8, L.2 | Changes in States | | thermal energy different? What happens |
| Maak 07 | | | | | | to thermal energy when matter changes |
| Week 37 | | | + | | What are some ways to | from one state to another? How does the descriptionof an object's |
| Week 38 | on Ses | | Ch. 1, L.1 | Position and Motion | describe motion? | position depend on a reference point? |
| | K: Motion and Forces | PS: Motion | | | | What is speed? How can you use a |
| | K: N and F | | Ch. 1, L.2 | Speed | | distance-time graph to calculate average |
| Week 39 | ar | | | | | speed? |
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Hücre: B16 Yorum: Designing Prosthetic Device -Margie Penzinski

Hücre: B28 Yorum: Water Purification System -Margie Penzinski

| Unit Name: | Chapters/Lessons: | Chapters/Lessons: | | | | |
|--------------------|--------------------------------|-------------------|--|--|--|--|
| Expected Length: | eeks/days (Actual weeks/days:) | | | | | |
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| Big Idea Question: | | | | | | |
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| Labs: | Activities: | | | | | |
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| Supplies Needed: | Supplies Needed: | | | | | |
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| Video Ideas: | | | | | | |
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| Assessment Ideas: | | | | | | |
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| Grade 7 YAG | | | | | | | | | | | |
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| Weeks | Book | Umbrella Topic | Chapter/ Lesson | Weekly Topic | Big Idea Question for Chapter | Essential Question for Lesson | | | | | |
| Week 1 | Scientific Methods | | NOS, L.2 | Understanding Science: Tools/Measurement | What is scientific inquiry? | Why did scientistss create the International System of Units (SI)? Why is scientific notation a useful tool for scientists? How can tools, such as graduated cylinders and triple-beam balances, assist physical scientists? | | | | | |
| Week 2 | K: Scier | | NOS, L.3 | Case Study | | Why are evaluation and testing important in the design process? How is scientific inquiry used in a real-life scientific investigation? | | | | | |
| Week 3 | Elements | PS: Atoms and Periodic | Ch. 9, L.2 | Protons, Neutrons, Electrons; How Atoms Differ | What are atoms and what are they made of? | What happens during nuclear decay? How does a neutral atom change when its number of protons, electrons, or neutrons changes? | | | | | |
| Week 4 | M: Atoms and E | Table | Ch. 10, L.1 | Using the Periodic Table | How is the periodic table used to classify and provide information about all known elements? | How are elements arranged on the periodic table? What can you learn about elements from the periodic table? | | | | | |
| Week 5 | er | | Ch. 12, L.1 | Understanding Chemical Reactions | energy during a chemical reaction? | What are some signs that a chemical reaction might have occured? What happens to atoms during a chemical reaction? What happens to the total mass in a chemical reaction? | | | | | |
| Week 6 | N: Interactions of Matter | | PS: Chemical Reactions and Mixtures | Ch. 13, L.1 | Substances and Mixtures | What are solutions and how are they described? | How do substances and mixtures differ? How do solutions compare and contrast with heterogeneous mixtures? In what three ways do compounds differ from mixtures? | | | | |
| Week 7 | | | | | | | | | | Ch. 13, L.2 | Properties of Solutions |
| Week 8 | | | Ch. 5, L.1 | Forms of Energy | What is energy and what are energy resources? | What is energy? What are potential and kinetic energy? How is energy related to work? What are different forms of energy? | | | | | |
| Week 9 | Energy and Matter | PS: Energy and Energy Transformatio ns | and Energy | Ch. 5, L.2 | Energy Transformation | | What is the law of conservation of energy? How does friction affect energy transformations? How are different types of energy used? | | | | |
| Week 10 | L: EL | | Ch. 6, L.2 | Thermal Energy Transfer | How can thermal energy be used? | What is the effect of having a small specific heat? What happens to a material when it is heated? In what ways can thermal energy be transferred? | | | | | |
| Week 11 | etism | | Ch. 19, L.2 | Simple circuits and Describing circuits | How do electric circuits and devices transform energy? | What is the relationship between electric charge and electric current? What are voltage, current, and resistance, and how do they affect each other? | | | | | |

| | anc | PS: Electricity and Waves | Ch. 15, L.1 | What are Waves? | How do waves travel through matter? | What is a wave? How do different types of waves make particles of matter move? Can waves travel |
|--------------------|------------------------|----------------------------------|----------------------------|-----------------------------------|---|--|
| Week 12 | ctric | | | | | through empty space? |
| Week 13 | O: Waves, Electricity, | | Ch. 15, L.2 | Wave Properties | | What are properties of waves? How ar the frequency and the wavelength of a wave related? What affects wave speed? |
| Week 14 | | | Ch. 20, L.1 | Abiotic Factors | How do living things and the nonliving parts of the environment interact? | What are the nonliving parts of an environment? |
| WEEK 14 | | LS: Matter | Ch. 20, L.2 | Cycles of Matter | | How does matter move in |
| Week 15 | | and Energy in Ecosystem | CII. 20, L.2 | Energy in Ecosystems | | ecosystems? How does energy move in |
| Week 16 | | Loodyotoin | Ch. 20, L.3 | | | ecosystems? How is the movement of energy in an ecosystem modeled? |
| Week 17 | | LS: | Ch. 21, L.1 | Populations | How do populations and communities interact and change? | What defines a population? What factors affect the size of a population? |
| Week 18 | of l | Population and Communities | Ch. 21, L.2 | Changing Populations | | How do populations change? Why do human populations change? |
| Week 19 | teractions | | Ch. 21, L.3 | Communities | | What defines a community? How do the populations in a community interact? |
| Week 20 | J: Inter | LS: Biomes | Ch. 22, L.1 | Land Biomes | How do Earth's biomes and ecosystems differ? | How do Earth's land biomes differ? How do humans impact land biomes? |
| Week 21 | | | Ch. 22, L.2 | Aquatic Ecosystems | | How do Earth's aquatic ecosystems differ? How do humans impact aquatic ecosystems? |
| Week 22 | | | Ch. 22, L.3 | How Ecosystems change | | How do land ecosystems change over time? How do aquatic ecosystems change over time? |
| Week 23 | | Project STEM | Ch. 18, L.2 Ch. 18, L.3 | STEM: Designing Eco-Friendly Dams | | |
| Week 24 Week 25 | | | Ch. 18, L.3 Ch. 12, L.1 | Describing Earth's Atmosphere | How does Earth's atmosphere affect life on Earth? | How did Earth's atmosphere form? What is Earth's atmosphere made of? What are the layers of the atmosphere? How do air pressure and temperature change as altitude increases? |
| Week 26 | | ES: Earth's Atmosphere | Ch. 12, L.2 | Energy Transfer in the Atmosphere | | How does energy transfer from the Sun to Earth and the atmosphere? How are air circulation patterns within the atmosphere created? |
| Week 27 | C: Weather and Cli | | Ch. 12, L.3 | Air Currents | | How does uneven heating of Earth's surface result in air movement? How are air currents on Earth affected by Earth's spin? What are the main wind belts on Earth? |
| Week 28 | | | Ch. 14, L.1 | Climates of Earth | What is climate and how does it impact life on Earth? | What is climate? Why is one climate differnt from another? How are climates classified? |
| Week 29 | | ES: Climate | Ch. 14, L.2 | Climate Types | | How has climate varied over time? What causes seasons? How does the ocean affect climate? |
| Week 30 | | | Ch. 14, L.3 | Recent Climate Change | | How can human activities affect climate? How are predictions for climate change made? |

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| | | | | The Water Planet | What role does water play on | |
| | | | Ch. 15, L.1 | | Earth? | life? How is water distributed |
| | ω. | | , | | | on Earth? How is water |
| Week 31 | čě | | | | | cycled on Earth? |
| | uno | | | Composition and Structure of Ocean | What are characteristics of | |
| | SSC | | | | oceans and why are oceans | Why are the oceans salty? |
| | Å. | | | | important? | What does the seafloor look |
| | ler | ES: Earth's | Ch. 16, L.1 | | | like? How do temperature, |
| | Et | | | | | salinity, and density affect |
| Week 32 | 0 P | Water | | | | ocean structure? |
| | an | | | Ocean Waves and Tides | | |
| | ter | | Ch. 16, L.2 | | | What causes ocean waves? |
| Week 33 | Vat | | ····· · · · , | | | What causes tides? |
| | D: Water and Other Resources | | | Ocean Currents | 1 | Wha re the major types of |
| | | | | | | ocean currents? How do |
| | | | Ch. 16, L.3 | | | ocean currents affect |
| Week 34 | | | | | | weather and climate? |
| WCCR 04 | | | | Earth's Motion | What natural phenomena do | How does Earth move? Why |
| | | | | | the motions of Earth and the | is Earth warmer at the |
| | | | | | | |
| | ە | | Ch. 20, L.1 | | Moon produce? | equator and colder at the |
| | ers | | | | | poles? Why do seasons |
| Mark 05 | ive ive | | | | | change as Earth moves |
| Week 35 | - n | ES: The Sun- | | | | around the Sun? |
| | Exploring Universe | Earth- Moon | | Earth's Moon | | |
| | orii | System | Ch. 20, L.2 | | | How odes the Moon move |
| | <u>d</u> | | , | | | around Earth? Why does the |
| Week 36 | | | | | | Moon's appearance change? |
| | ш | | | Eclipses and Tides | | What is a solar eclipse? |
| | | | Ch. 20, L.3 | | | What is a lunar eclipse? How |
| | | | CII. 20, E.O | | | do the Moon and the Sun |
| Week 37 | | | | | | affect Earth's oceans? |
| Week 38 | Σ | | Ch. 1, L.1 | STEM: Designing Space Vehicles | | |
| | STEM | Project STEM | | STEM: Designing Space Vehicles | 1 | |
| Week 39 | S | | Ch. 1, L.2 | STEW. Designing Space Venicles | | |
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Hücre: G33 Yorum: Margie: Project WET: Incredilbe Journey

Hücre: B40 Yorum: Designing Space Vehicles -Margie Penzinski

| Unit Name: | | | |
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| Expected Length: wee | eks/days (Actual weeks/days:) | | |
| Big Idea Question: | | | |
| Labs: | Activities: | | |
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| Supplies Needed: | Supplies Needed: | | |
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| Video Ideas: | | | |
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| Assessment Ideas: | | | |
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| Grade 8 YAG | Book | Umbrella | Chapter/ | Weekly Tonic | Big Idea Question for | Essential Question for |
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| Weeks | Bo | Topic | Lesson | Weekly Topic | Chapter | Lesson |
| Week 1 | | | NOS, L.3 | Case Study | What processes do scientists use when they perform scientific investigatoins? | How are independent variables and dependent variables related? How is scientific inquiry used in a real-life scientific investigation? |
| Week 2 | | ES: Mapping Earth and | Ch. 1, L.2 | Technology and Mapmaking | How are Earth's surface features measured and modeled? | What can a topographic map tell you about the shape of Earth's surface? What can you learn from geologic maps about the rocks near Earth's surface? How can modern technology be used in mapmaking? |
| Week 3 | | Earth's Surface | Ch. 2, L.1 | Spherical Earth | How is Earth structured? | What are Earth's major systems and how do they interact? Why does Earth have a spherical shape? |
| Week 4 | ing Earth | | Ch. 2, L.2 | Earth's Interior | | What are the interior layers of Earth? What evidence indicates that Earth has a solid inner core and a liquid outer core? |
| Week 5 | A: Exploring | | Ch. 6, L.1 | Erosion & Deposition Process | How do erosion and deposition shape Earth's surface? | How can erosion shape and sort sediment? How are erosion and deposition related? What features suggest whether erosion or deposition created a landform? |
| Week 6 | | ES: Erosion and Deposition | Ch. 6, L.2 | Landforms Shaped by Wind & Water | | What are the stages of stream develpment? How do water erosion and deposition change Earth's surface? How do wind erosion and deposition change Earth's surface? |
| Week 7 | | | Ch. 6, L.3 | Mass Wasting and Glaciers | | What are some ways gravity shapes Earth's surface? How do glaciers erode Earth's surface? |
| Week 8 | | | Ch. 7, L.1 | Continental Drift | What is the theory of plate tectonics? | What evidence supports continental drift? Why did scientists question the continental drift hypothesis? |
| Week 9 | | ES: Plate Tectonics | Ch. 7, L.2 | Development of a Theory | | What is seafloor spreading? What evidence is used to support seafloor spreading? |
| Week 10 | | | Ch. 7, L.3 | Theory of Plate Tectonics | | What is the theory of plate tectonics? What are the three tyes of plate boundaries? Why do tectonic |
| Week 10 Week 11 | | | Ch. 8, L.1 | Forces that Shape Earth/Landforms at Plate Boundaries | How is Earth's surface shaped by plate motion? | plates move? How do continents move? What forces can change rocks? How does plate motion affect the rock cycle? |
| Week 12 | Changes | ES: Earth Dynamics | Ch. 8, L.3; L.4 | Mountain Building and Continent Building | | How do mountains change over time? How do different types of mountains form? What are two ways continents grow? What are the differences between interior plains, basins, and plateaus? |

| | B: Geologic | | Ch. 9, L.1; L.2 | Earthquakes/Volcanoes | What causes earthquakes and volcanic eruptions? | What is an earthquake? Where do earthquakes occur? How do scientists monitor earthquake activity? How do volcanoes form? What factors contribute to the eruption style of a volcano? How are volcanoes |
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| Week 13 | | | Ch. 10, L.1 | Fossils | What evidence do scientists use to determine the ages of rocks? | What are fossils and how do they form? What can fossils |
| Week 14 Week 15 | | | Ch. 10, L.2 | Relative-Age Dating | | reveal about Earth's past? What does relative age mean? How can the positions of rock layers be used to determine the relative ages of rocks? |
| Week 16 | | ES: Clues to Earth's Past | Ch. 10, L.3 | Absolute Age Dating | | What does absolute age mean? How can radioactive decay be used to date rocks? |
| Week 17 | | | Ch. 11, L.1 | Geologic History and Evolution of Life | What have scientists learned about Earth's past by studying rocks and fossils? | How was the geologic time scale developed? What are some causes of mass extinctions? How is evolution affected by environmental change? |
| Week 18 | | | Ch. 2, L.1 | Gravity and Friction | How do forces change the motion of objects? | What are some contact forces and some noncontact forces? What is the law of universal gravitation? How does friction affect the motion of two objects sliding past each other? |
| Week 19 | а | PS: The Laws of Motion | Ch. 2, L.2 | Newton's First Law | | What is Newton's first law of motion? How is motion rlated to balanced and unbalanced forces? What effect does inertia have on the motion of an object? |
| Week 20 | K: Motion | | Ch. 2, L.3 | Newton's Second Law | | What is Newton's second law of motion? How does centripetal force affect circular motion? |
| Week 21 | | | Ch. 2, L.4 | Newton's Third Law | | What is Newton's third law of motion? Why don't the forces in a pair cancel each other? What is the law of conservation of momentum? |
| Week 22 | | | Ch. 19, L.1 | Electric Charge and Forces | How do electric circuits and devices transform energy? | How do electrically charged objects interact? How can objects become electrically charged? What is an electric discharge? |
| Week 23 | and Magnetism | DS. Elastriaite | Ch. 20, L.1 | Magnets and Magnetic Fields | How are electric charges and magnetic fields related? | |
| Week 24 | and | | Ch. 20, L.2 | Making Magnets with an Electric current | | Why does a magnet exert a force on an electric current? How is an electromagnet different from a permanent magnet? How are magnets used in electric motors? |

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| Week 25 | :0 | | Ch. 20, L.3 | Making Electric current with Magnets | | How can wire and a magnet produce an electric current? How do electric generators create an electric current? How are tranformers used to bring an electric current into your home? |
| Week 26 | | | Ch. 3, L.1 | The Cell Cycle and Cell Division | How can one cell become a multicellular organism? | What are the phases of the cell cycle? Why is the result of the cell cycle important? |
| Week 27 | | | Ch. 4, L.1 | Sexual Reproduction and Meiosis | Why do living things reproduce? | What is sexual reproduction and why is it beneficial? What is the order of the phases of meiosis, and what happens during each phase? Why is meiosis important? |
| Week 28 | | LS: Reproduction and Genetics | Ch. 4, L.2 | Asexual Reproduction | | What is asexual reproduction and why is it beneficial? How do the types of asexual reproduction differ? |
| Week 29 | and Function | and Genetics | Ch. 5, L.1 | Mendel and His Peas | How are traits passed from parents to offspring? | Why did Mendel perform cross-pollination experiments? What did Mendel conclude about inherited traits? How do dominant and recessive factors interact? |
| Week 30 | F: Life: Structure | | Ch. 5, L.2 | Understanding Inheritance | | What determines the expression of traits? How can inheritance be modeled? How do some patterns of inheritance differ from Mendel's model? |
| Week 31 | | | Ch. 6, L.1 | Fossil Evidence of Evolution | How do species adapt to changing environments over time? | How do fossils form? How do scientists date fossils? How are fossils evidence of biological evolution? |
| Week 32 | | LS: The Environment and Change Over Time | Ch. 6, L.2 | Natural Selection | | Who was Charles Darwin? How does Darwin's theory of evolution by natural selection explain how species change over time? How are adaptatoins evidence of natural selection? |
| Week 33 | | | Ch. 6, L.3 | Biological Evidence of Evolution | | What evidence from living species supports the theory that species descended from toher species over time? How are Earth's organisms related? |
| | Mé | | | | | |
| Week 34 | Review | | | Review | | |
| | ЕОУ Р | | | EOY | | |
| Week 35 | | Engineering | Ch. 8, L.1 | STENT: Building for | | |
| Week 36 Week 37 | STE | Engineering & Technology | | STEW: Building for | | |
| Week 37 Week 38 | t STEM | Engineering | Ch. 1, L.1 | Earthquakes STEM: Designing Roller Coaster | | |
| Week 39 | ST | & Technology | Ch. 1, L.2 | Coaster STEW. Designing Koller | | |
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Hücre: G3 Yorum: Margie: Gummy Bear Lab

Hücre: G32 Yorum: Margie: Paper Pets (NSTA)

Hücre: B38 Yorum: Design Building for Earthquakes -Margie Penzinski

Hücre: B40 Yorum: Design Roller Coaster -Margie Penzinski

| Unit Name: | | | |
|----------------------|-------------------------------|--|--|
| Expected Length: wee | eks/days (Actual weeks/days:) | | |
| Big Idea Question: | | | |
| Labs: | Activities: | | |
| | | | |
| Supplies Needed: | Supplies Needed: | | |
| YANLIŞ | YANLIŞ | | |
| YANLIŞ YANLIŞ | YANLIŞ YANLIŞ | | |
| Video Ideas: | | | |
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| Assessment Ideas: | | | |
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