

Department of Teaching & Learning

4th Grade Science Scope and Sequence 2020-2021

TEKS Distribution among Units

Priority Standards are Bold

| | 4.1A | 4.1B | 4.2A | 4.2B | 4.2C | 4.2D | 4.2E | 4.2F | 4.3A | 4.3B | 4.3C | 4.4A |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| Unit 1 | х | | х | х | х | х | х | х | х | | | х |
| Unit 2 | х | | х | х | х | х | х | х | х | | | х |
| Unit 3 | х | х | | х | х | х | | х | х | х | х | |
| Unit 4 | х | | х | х | х | х | | х | х | х | х | х |
| Unit 5 | х | | | х | х | х | | х | х | х | х | х |
| Unit 6 | х | | | х | х | х | | х | х | | х | |
| Unit 7 | х | х | х | х | х | х | х | х | х | х | х | х |

Process Standards

Content Standards

| | 4.5A | 4.5B | 4.6A | 4.6B | 4.6C | 4.6D | 4.7A | 4.7B | 4.7C | 4.8A | 4.8B | 4.8C | 4.9A | 4.9B | 4.10A | 4.10B | 4.10C |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| Unit 1 | x | х | | | | | | | | | | | | | | | |
| Unit 2 | | | х | х | х | х | | | | | | | | | | | |
| Unit 3 | | | | | | | х | х | х | | | | | | | | |
| Unit 4 | | | | | | | | | | х | х | х | | | | | |
| Unit 5 | | | | | | | | | | | | | х | х | | | |
| Unit 6 | | | | | | | | | | | | | | | х | х | х |
| Unit 7 | | | | | | | | | | | | | | | | | |



4th Grade Science Scope and Sequence 2020-2021

Process Standards:

4.1A Demonstrate safe practices and the use of safety equipment as described in Texas Education Agency-approved safety standards during classroom and outdoor investigations using safety equipment, including safety goggles or chemical splash goggles, as appropriate, and gloves, as appropriate 4.1B Make informed choices in the use and conservation of natural resources and reusing and recycling of materials such as paper, aluminum, glass, cans, and plastic. 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions. 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps. 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data. 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured. 4.2E Perform repeated investigations to increase the reliability of results. 4.2F Communicate valid oral and written results supported by data. 4.3A Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing. 4.3B Represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy and size. 4.3C Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists. 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support observation of habitats of organisms such as terrariums and aquariums.

| Grading Period 1 Note: Includes 2 days for 2020 – 2021 School Year Orientation | | | | | |
|--|--|--|--|--|--|
| Unit 1: Matter Estimated Date Range: 8/17/20 – 10/9/20 Estimated Time Frame: 39 Days Note: Includes 2 days for Re-engagement and Assessment | | | | | |
| Concepts within the Unit | TEKS | | | | |
| Concept #1: Safety Suggested Days: 3 | Integrated Standards 4.1A Demonstrate safe practices and the use of safety equipment as described in Texas Education Agency- approved safety standards during classroom and outdoor investigations using safety equipment, including safety goggles or chemical splash goggles, as appropriate, and gloves, as appropriate. | | | | |



| Concept #2: Scientific Practices | Integrated Standards |
|-------------------------------------|---|
| Suggested Days: 3 | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, |
| | and selecting and using appropriate equipment or technology to answer his/her questions. |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2E Perform repeated investigations to increase the reliability of results. |
| | 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, |
| | hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, |
| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support |
| | observation of habitats of organisms such as terrariums and aquariums. |
| Concept #3: Scientific Explanations | Integrated Standards |
| Suggested Days: 4 | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measure. |
| | 4.2F Communicate valid oral and written results supported by data. |
| | 4.3A Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental |
| | and observational testing. |
| Concept #4: Physical Properties of | Priority Standards |
| Matter | 4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states (solid, |
| Suggested Days: 19 | liquid, gas), temperature, magnetism, and the ability to sink or float. |
| | Integrated Standards |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, |
| | and selecting and using appropriate equipment or technology to answer his/her questions. |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measure. |
| | 4.2F Communicate valid oral and written results supported by data. |
| | 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, |
| | hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, |
| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support |
| | observation of habitats of organisms such as terrariums and aquariums. |



| Concept #5: Mixtures | Important Standards |
|---------------------------------------|---|
| Suggested Days: 8 | 1 5B Compare and contrast a variety of mixtures including solutions |
| | Integrated Standards |
| | A 2A Plan and implement descriptive investigations including asking well defined questions, making inferences |
| | and selecting and using appropriate equipment or technology to answer his/her questions, making interences, |
| | A 2B Collect and record data by observing and measuring using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concent mans |
| | A 2C Construct simple tables, charts, har graphs, and mans using tools and current technology to organize |
| | examine and evaluate data |
| | 4.2D Analyze data and interpret natterns to construct reasonable evaluations from data that can be observed |
| | and measure |
| | A 2E Communicate valid oral and written results supported by data |
| | 4.21 Communicate valid oral and written results supported by data. |
| | hand lenses metric rulers. Celsius thermometers mirrors spring scales balances graduated cylinders backers |
| | hand lenses, metric rulers, celsus mernometers, minors, spring scales, balances, graduated cylinders, beakers, |
| | observation of babitats of organisms such as terrariums and aquariums |
| | |
| | Grading Period 2 |
| | Unit 2: Force, Motion, and Energy |
| | Estimated Date Range: 10/12/20 – 11/20/20 |
| | Estimated Time Frame: 29 days Note: Includes 2 day for Re-engagement and Assessment |
| Concepts within the Unit | TEKS |
| Concept #1: Electricity | Important Standards |
| Suggested Days: 8 | 4.6C Demonstrate that electricity travels in a closed path, creating an electrical circuit. |
| | Integrated Standards |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, |
| | and selecting and using appropriate equipment or technology to answer his/her questions |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize. |
| | examine, and evaluate data. |
| Concept #2: Conductors and Insulators | Important Standards |
| (Continued) | 4.6B Differentiate between conductors and insulators of thermal and electrical energy. |
| Suggested Days: 6 | Integrated Standards |



| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
|-----------------------------|--|
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid oral and written results supported by data. |
| Concept #3: Forms of Energy | Important Standards |
| Suggested Days: 5 | 4.6A Differentiate among forms of energy, including mechanical, sound, electrical, light, and thermal. |
| | Integrated Standards |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid oral and written results supported by data. |
| Concept #4: Forces | Priority Standards |
| Suggested Days: 8 | 4.6D design a descriptive investigation to explore the effect of force on an object such as a push or a pull. |
| | gravity, friction, or magnetism. |
| | Integrated Standards |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, |
| | and selecting and using appropriate equipment or technology to answer his/her questions. |
| | 4 2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and mans using tools and current technology to organize |
| | examine, and evaluate data. |
| | 4 2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured |
| | 4 2F Perform repeated investigations to increase the reliability of results |
| | 4 2F Communicate valid oral and written results supported by data |
| | 4.34 Analyze evaluate and critique scientific explanations by using evidence logical reasoning and experimental |
| | and observational testing |
| | A A Collect record and analyze information using tools including calculators microscopes computers |
| | 4.4A Conect, record, and analyze information using tools, including calculators, incluscopes, called s, computers, band lances, matrix rulars, Calcius thermometers, mirrors, carring scales, balances, graduated culinders, backers |
| | Thand lenses, metric rulers, ceisius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, |



| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support observation of habitats of organisms such as terrariums and aquariums. | | | | | | |
|---|--|--|--|--|--|--|--|
| Unit 3: Earth's Surface Estimated Date Range: 11/30/20 – 12/18/20 Estimated Time Frame: 15 days | | | | | | | |
| Concepts within the Unit TEKS | | | | | | | |
| Concept #1: Soil | Important Standards | | | | | | |
| Suggested Days: 8 | 4.7A Examine properties of soils, including color and texture, capacity to retain water, and ability to support the | | | | | | |
| | growth of plants. | | | | | | |
| | Integrated Standards | | | | | | |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions. | | | | | | |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps. | | | | | | |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize. | | | | | | |
| | examine, and evaluate data. | | | | | | |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed | | | | | | |
| | and measured. | | | | | | |
| | 4.2E Perform repeated investigations to increase the reliability of results. | | | | | | |
| | 4.2F Communicate valid oral and written results supported by data. | | | | | | |
| | 4.3A Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing. | | | | | | |
| | 4.3C Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists. | | | | | | |
| | 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, | | | | | | |
| | hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, | | | | | | |
| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support | | | | | | |
| | observation of habitats of organisms such as terrariums and aquariums. | | | | | | |
| Concept #2: Slow Changes to the Earth's | Priority Standards | | | | | | |
| Surface | 4.7B Observe and identify slow changes to Earth's surface caused by weathering, erosion, and deposition from | | | | | | |
| Suggested Days: 7 | water, wind, and ice. | | | | | | |
| | Integrated Standards | | | | | | |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, | | | | | | |
| | and selecting and using appropriate equipment or technology to answer his/her questions. | | | | | | |

| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
|--|---|
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid oral and written results supported by data. |
| | 4.3A Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental |
| | and observational testing. |
| | 4.3B Represent the natural world using models such as the water cycle and stream tables and identify their |
| | limitations, including accuracy and size. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | Grading Period 3 |
| | Unit 3: Earth's Surface (continued) |
| | Estimated Date Range: 1/6/21 – 1/15/21 |
| | |
| | Estimated Time Frame: 8 days |
| Concente within the Unit | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment |
| Concepts within the Unit | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Immonstant Standards |
| Concepts within the Unit Concept #3: Natural Resources | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Important Standards A 7C Identify and closeify Forthly renewyable recovered including air, plants water, and enimals, and non-renewyable |
| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Important Standards 4.7C Identify and classify Earth's renewable resources including air, plants, water, and animals; and nonrenewable resources including and patural gas, and the importance of concervation |
| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Important Standards 4.7C Identify and classify Earth's renewable resources including air, plants, water, and animals; and nonrenewable resources including coal, oil and natural gas; and the importance of conservation. Integrated Standards |
| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Important Standards 4.7C Identify and classify Earth's renewable resources including air, plants, water, and animals; and nonrenewable resources including coal, oil and natural gas; and the importance of conservation. Integrated Standards A 2R Collect and record data by observing and measuring, using the metric system, and using descriptive words. |
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| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment |
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| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment |
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| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Important Standards 4.7C Identify and classify Earth's renewable resources including air, plants, water, and animals; and nonrenewable resources including coal, oil and natural gas; and the importance of conservation. Integrated Standards 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps. 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data. 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured. 4.2F Communicate valid oral and written results supported by data. |
| Concepts within the Unit Concept #3: Natural Resources Suggested Days: 6 | Estimated Time Frame: 8 days Note: Includes 2 day for Re-engagement and Assessment TEKS Important Standards 4.7C Identify and classify Earth's renewable resources including air, plants, water, and animals; and nonrenewable resources including coal, oil and natural gas; and the importance of conservation. Integrated Standards 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps. 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data. 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured. 4.2F Communicate valid oral and written results supported by data. |



| Unit 4: Patterns in the Natural World Estimated Date Range: 1/19/21 – 3/3/21 | | | |
|---|--|--|--|
| | Estimated Time Frame: 30 days | | |
| Concents within the Unit | Note: Includes 2 days for Re-engagement and Assessment | | |
| Concepts within the Onit | IEN3 | | |
| Suggested Dave: 0 | A SA Massure, record and predict changes in the weather | | |
| Suggested Days. 9 | 4.6A Measure, record and predict changes in the weather. | | |
| | A 2P Collect and record data by observing and measuring using the metric system, and using descriptive words | | |
| | and numerals such as labeled drawings, writing, and concept maps | | |
| | A 2C Construct simple tables, charts, bar graphs, and mans using tools and current technology to organize | | |
| | examine and evaluate data | | |
| | 4 2D Analyze data and interpret natterns to construct reasonable explanations from data that can be observed | | |
| | and measured | | |
| | 4 2F Communicate valid oral and written results supported by data | | |
| | 4 3C Connect grade-level appropriate science concents with the history of science, science careers, and | | |
| | contributions of scientists. | | |
| | 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, | | |
| | hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, | | |
| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support | | |
| | observation of habitats of organisms such as terrariums and aquariums. | | |
| Concept #2: Water Cycle | Important Standards | | |
| Suggested Days: 9 | 4.8B Describe and illustrate the continuous movement of water above and on the surface of Earth through the | | |
| | water cycle and explain the role of the Sun as a major source of energy in this process. | | |
| | Integrated Standards | | |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, | | |
| | and selecting and using appropriate equipment or technology to answer his/her questions | | |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words | | |
| | and numerals such as labeled drawings, writing, and concept maps. | | |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, | | |
| | examine, and evaluate data. | | |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed | | |
| | and measured. | | |
| | 4.2F Communicate valid oral and written results supported by data. | | |



| | 4.3B Represent the natural world using models such as the water cycle and stream tables and identify their |
|---------------------------------|--|
| | limitations, including accuracy and size. |
| | 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, |
| | hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, |
| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support |
| | observation of habitats of organisms such as terrariums and aquariums. |
| Concept #3: Earth's Cycles | Priority Standards |
| Suggested Days: 10 | 4.8C Collect and analyze data to identify sequence and predict patterns of change in shadows, seasons and the |
| | observable appearance of the Moon overtime. |
| | Integrated Standards |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid oral and written results supported by data. |
| | 4.3B Represent the natural world using models such as the water cycle and stream tables and identify their |
| | limitations, including accuracy and size. |
| | Unit 5: Ecosystems |
| | Estimated Date Range: 3/4/21 – 3/12/21 |
| | Estimated Time Frame: 7 days |
| Concepts within the Unit | TEKS |
| Concept #1: Producers/Consumers | Priority Standards |
| Suggested Days: 7 | 4.9A Investigate that producers need sunlight, water, and carbon dioxide to produce their own food. Consumers |
| | depend on plants or other organisms for food. |
| | Integrated Standards |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
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| | 4.3B Represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy and size. 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support observation of habitats of organisms such as terrariums and aquariums. |
|---------------------------------|---|
| | Grading Period 4 |
| | Unit 5: Ecosystems (Continued) Estimated Date Range: 3/22/21 – 4/6/21 Estimated Time Frame: 11 days Note: Includes 2 days for Re-engagement and Assessment and 1 day for STAAR |
| Concepts within the Unit | TEKS |
| Concept #1: Producers/Consumers | Priority Standards |
| (Continued) | 4.9A Investigate that producers need sunlight, water, and carbon dioxide to produce their own food. Consumers |
| Suggested Days: 3 | depend on plants or other organisms for food. |
| | Integrated Standards |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
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| | hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, |
| | hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support |
| | observation of habitats of organisms such as terrariums and aquariums. |
| Concept #2: Food Webs | Important Standards |
| Suggested Days: 5 | 4.9B Describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the |
| | ecosystem affect the food web such as a fire in a forest. |
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| | Integrated Standards |
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| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid oral and written results supported by data. |
| | Unit 6: Organisms |
| | Estimated Date Range: 4/7/21 – 5/14/21 |
| | Estimated Time Frame: 27 days |
| Note: Includes 2 c | days for Re-engagement and Assessment, 2 days for STAAR, and <mark>4 days for COVID-19 Curriculum Adjustments</mark> |
| Concepts within the Unit | TEKS |
| Concept #1: Structures and Functions | Priority Standards |
| Suggested Days: 12 | 4.10A Explore how structures and functions enable organism to survive in their environment. |
| Note: Includes 3 days for COVID-19 | Integrated Standards |
| Curriculum Adjustments | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid oral and written results supported by data. |
| Concept #2: Inherited Traits and Learned | Important Standards |
| Behaviors | 4.10B Explore and describe examples of traits that are inherited from parents to offspring such as eye color and |
| Suggested Days: 5 | shapes of leaves and behaviors that are learned such as reading a book and a wolf pack teaching their pups to |
| | hunt. |
| | Integrated Standards |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize. |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
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| Concert #2. Life Cueles | Important Standards |
|---|---|
| Concept #3: Life Cycles | <u>A 100 Evalue illustrate and compare life evalue of ergenieme such as heatles, eviduate radiabas and line beans</u> |
| Suggested Days: 6 | 4.10C Explore, illustrate and compare life cycles of organisms such as: beetles , crickets, radisnes and ilma beans |
| Note: Includes 1 days for COVID-19 | Integrated Standards |
| Curriculum Adjustments | 4.28 Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, |
| | examine, and evaluate data |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2F Communicate valid, oral, and written results supported by data. |
| Unit 7: STEM | |
| Estimated Date Range: 5/17/21 – 5/26/21 | |
| | Estimated Time Frame: 8 days |
| Conconts within the Unit | |
| Concepts within the onit | Integrated Standards |
| Concept #1: STEW | Integrated Standards |
| Suggested Days: 6 | 4.1A Demonstrate sale practices and the use of salety equipment as described in Texas Education Agency- |
| | approved safety standards during classroom and outdoor investigations using safety equipment, including safety |
| | goggies or chemical splash goggies, as appropriate, and gloves, as appropriate. |
| | 4.18 Make informed choices in the use and conservation of natural resources and reusing and recycling of |
| | materials such as paper, aluminum, glass, cans, and plastic. |
| | 4.2A Plan and implement descriptive investigations, including asking well defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions. |
| | 4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words |
| | and numerals such as labeled drawings, writing, and concept maps. |
| | 4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize. |
| | examine, and evaluate data. |
| | 4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed |
| | and measured. |
| | 4.2E Perform repeated investigations to increase the reliability of results. |
| | 4.2F Communicate valid oral and written results supported by data. |
| | 4.3A Analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental |
| | and observational testing. |
| | 4.3B Represent the natural world using models such as the water cycle and stream tables and identify their |
| | limitations, including accuracy and size. |



| 4.3C Connect grade-level appropriate science concepts with the history of science, science careers, and |
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| contributions of scientists. |
| 4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, |
| hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, |
| hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices; and materials to support |
| observation of habitats of organisms such as terrariums and aquariums. |