

4th Grade Science Curriculum

2021-2022

Quarter	Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
1	4.LS1.A.1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and plant reproduction.	Cell Nucleus Cytoplasm Chloroplast Genus Species Vertebrates Invertebrates Photosynthesis Chlorophyll Sepal Pistil Stamen Ovary Fertilization Dormant Ecosystem Population Community Niche Herbivores Carnivores Omnivores Decomposers Competition Parasite Host Succession Extinct Endangered Hazardous waste	Unit One: From Molecules to Organisms: Structure and Processes (Text) Resources: Science Text, Paper, Pencil, Science Activity Book <u>Activities</u> Week 1: Read Chapter 1: Classify Plants and Animals, discuss, complete Activity Book assignment(s) Week 2: Read Chapter 2: Energy From Plants, discuss, complete Activity Book assignment(s) Week 3: Read Chapter 3: Ecosystems, discuss, complete Activity Book assignment(s) Week 4: Read Chapter 4: Changes in Ecosystems, discuss, complete Activity Book assignment(s) Week 5: Read Chapter 5: Systems of the Human Body, discuss, complete Activity Book assignment(s)	Formative: Classroom discussion, activity book worksheets Summative: Chapter tests, end of unit project
1	4.LS1.D.1 Use a model to describe that animals receive different types of information through their senses, process	Voluntary muscles Involuntary muscles Neuron Pathogens Infectious disease	Unit Two: From Molecules to Organisms: Structure and Processes (Mystery Science) Resources: Mystery Science, Unit 1 MS supplies box and printouts	Formative: Discussion, videos Summative: Hands-on projects from supplies box,

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	<p>the information in their brain, and respond to the information in different ways.</p> <p>4.LS1.1 4.LS1.2 4.PS4.2</p>	<p>Immune system vaccine</p>	<p><u>Activities</u> Week 1: Mystery Science - Human Machine Lesson 1 Why do your biceps bulge? Week 2: Mystery Science - Human Machine Lesson 2 What do people who are blind see? Week 3: Mystery Science - Human Machine Lesson 3 How can some animals see in the dark? Week 4: Mystery Science - Human Machine Lesson 4 How does your brain control your body?</p>	<p>lesson quizzes</p>
2	<p>4.ESS2.A.1 Plan and conduct scientific investigations or simulations to provide evidence how natural processes shape Earth's surfaces.</p> <p>4.ESS2.B.1 Analyze and interpret data from maps to describe patterns of Earth's features.</p> <p>4.ESS3.A.1 Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.</p> <p>4.ESS2.B.1 4.ESS3.A.1 4.ESS1.C.1 4.ESS2.A.1</p>	<p>Evaporation Condensation Precipitation Humidity Front Meteorologists Barometer Anemometer Wind vane Hurricane Tropical depression Tropical storm Storm surge Tornado Vortex Landform Solar energy Humus Solar cells Ore Fossil fuels Petroleum Conservation Recycling</p>	<p>Unit Three: Earth's Systems/Earth and Human Activity (Text) Resources: Science Text, Paper, Pencil, Science Activity Book <u>Activities</u> Week 1: Read Chapter 6: Water Cycle and Weather, discuss, complete Activity Book assignment(s) Week 2: Read Chapter 7: Hurricanes and Tornadoes, discuss, complete Activity Book assignment(s) Week 3: Read Chapter 8: Minerals and Rocks, discuss, complete Activity Book assignment(s) Week 4: Read Chapter 9: Changes to Earth's Surface, discuss, complete Activity Book assignment(s) Week 5: Read Chapter 10: Using Natural Resources, discuss, complete Activity Book assignment(s)</p>	<p>Formative: Classroom discussion, activity book worksheets</p> <p>Summative: Chapter tests, end of unit project</p>

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2	4.ESS1.C.1 Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time. 4.ESS2.2 4.ESS1.1 4.ESS2.1 4.ESS3.2	Weathering Erosion Deposition Landslide Volcano Fault Earthquake Epicenter	Unit Four: Earth's Place in the Universe: History of the Planet Earth (Mystery Science) Resources: Mystery Science, Unit 2 MS supplies box and printouts <u>Activities</u> Week 1: Mystery Science - Birth of Rocks Lesson 1 Could a volcano pop up where you live? Week 2: Mystery Science - Birth of Rocks Lesson 2 Why do some volcanoes explode? Week 3: Mystery Science - Birth of Rocks Lesson 3 Will a mountain last forever? Week 4: Mystery Science - Birth of Rocks Lesson 4 How could you survive a landslide?	Formative: Discussion, videos Summative: Hands-on projects from supplies box, lesson quizzes