

Fourth Grade Science

http://www.sad44.org/curriculum/Science/science3_4.pdf

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Unit (order will vary)	Fossils and The Rock Cycle	The Human Body	Energy and Forces	Ecosystems
Strands	Continuity and Change (D) The Earth (F)	Cells (C) Continuity and Change (D)	Energy (H) Motion (I) Structure of Matter (E)	Classifying Life Forms (A) Ecology (B) Implications of Science and Technology (M)
http://www.state.me.us/education/lres/st.htm				
Activities	Make fossils using clay Look at fossils/rocks Examine soils Open geodes Make “sedimentary rock” with food Melt chips for “igneous rock” Water cycle mobile Use laptops to show plate tectonics	Create life-size body cut-outs of organs, place on body. Use microscopes and slides Make food pyramid: healthy body connections	Use electricity kit Make circuit quiz boards Magnets Energy Debate game Chemical Change experiments Physical Change experiments	Make food web with index cards Biome Research Project Discuss direct experience with living things, life cycles, and habitats. Include observations, interactions within the natural world
Assessments	Teacher-made		<i>Energy Everywhere</i> H1,2 http://mainelad.org (optional) <i>Physical and Chemical Change</i> E2 http://mainelad.org (optional)	<i>Polar Bears in Phoenix</i> http://www.maptasks.org B3; K6;L4 Writing prompt on biomes (ELA)

Vocabulary	Water Cycle Cyclic Process Decomposes Organisms Igneous Fossils Minerals Rocks Recycle Metamorphic Vapor Imprints Impressions Continents Sedimentary Plate tectonics	Organisms Generation Offspring Organ Cell Membrane Resemble Microscope Species System(s) Cell Wall Single Cell Adaptation Function Nucleus	Electricity Physical change Mechanical energy Magnets, Motion, Parallel Circuits, Insulators, Chemical Change, Chemical Energy, Matter, Massive, Forces, Series Circuits, Magnetism, Gravity, Reaction Force, Charged, Circuits, Conductors	Producers Biome Organism Diversity Algae Food Chain Consumers Habitat Food Web Detrimental Reproduction Decomposers Water Cycle Ecosystem Beneficial Components
Resources	Insights Kit: “Reading the Environment” Rocks and minerals samples Magnifying glasses Microscopes Fossil samples	Human body system models Posters Medical guest speakers. Medical facility field trips. Magic School Bus videos and books on body systems.	Foss: Electricity and Magnetism	Microscopes Field trips Nature walk <i>Mr. Popper’s Penguins</i> (good read-aloud)
<p>http://www.sciencenetlinks.com/ This site is aligned by the benchmarks as well as the grade span. It also has a list of great resource sites to go to.</p> <p>http://www.nasalearn.org/ At present this site is under construction but it is to be aligned with the Maine <i>Learning Results</i>.</p> <p>http://www.cloudnet.com/~edrbsass/edsci.htm This site has lots of links to other science sites and resources.</p>				