

**Mayflower Instructional Alignment
3rd Grade Science**

AR Department of Education	Objective	Content What You Are Teaching	Teaching Strategies/Classroom Activities	Evaluation/Assessments	Resources
CONTENT STANDARD/ Student Learning Expectations (SLE)					
1st Nine Weeks					
ESS.8.3.1, ESS.8.3.2, ESS.8.3.3, ESS.8.3.4, ESS.8.3.5, ESS.8.3.6, ESS.8.3.7, ESS.9.3.1, NS.1.3.4	Earth Science	Layers of the Earth Erosion Types of Rocks Classification of Rocks Physical Properties Arkansas Minerals Layers of Soil	Graphing and organizing information Pick a mineral from Arkansas Comparing and contrasting minerals Comparing and contrasting rocks Traits of rocks Create a fossil Weathering and erosion	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Harcourt science book pages C16-21 and C62-65, workbook pages from the Harcourt program, science journal, rocks and minerals collection, mineral symbol map of Arkansas, modeling clay, wax, paper plates, sand, cups, water, and straws.
ESS.10.3.1, ESS.10.3.2, ESS.10.3.3, NS.1.3.1, NS.1.3.6, NS.1.3.7	Solar System	Rotation and Revolution Orbit of both Earth and its moon How the Planets orbit the sun Constellation Solar and lunar eclipse	Graphing and organizing information Predictions based on prior knowledge Collect and analyze data The Earth's shadow from different perspectives Lunar and solar eclipses Create your own constellation, and write about the creation	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Harcourt science book pages D74-89, workbook pages from the Harcourt program, softball, paper, overhead, white crayon and a black piece of paper

2nd Nine Weeks

ESS.8.3.8, ESS.8.3.9, ESS.8.3.10, NS.1.3.5, NS.1.3.6, NS.1.3.8, NS.1.3.9, PS.7.3.2	Weather	Precipitation Severe weather safety Reading a rain gauge and thermometer	Reading a rain gauge Charting precipitation Use of a thermometer How to read temperature and temperature change Create your own weather forecast	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Harcourt science book pages D36-47, workbook pages from the Harcourt program, rain gauge, chart paper, 2 liter bottles, piece of cardboard,
NS.1.3.5, NS.1.3.8, NS.1.3.9, PS.5.3.1, 5.3.2, 5.3.3, 5.3.4	Matter	Estimating and measuring States of matter Comparing Solids and liquids	Comparing and contrasting 2 objects Describing solids Oobleck Dispersion of matter	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Harcourt science book pages E11-12, and E24-27, workbook pages from the Harcourt program, penny, marble, book, index card, key, garlic, nickel, macaroni, peppermint, cotton balls, twist tie, copy of WB161, measuring cups, aluminum foil, paper plate, cornstarch, water, and Ziploc bags, balances, boxes of crayons, box of Kleenexes, different clear compartments

3rd Nine Weeks

PS.7.3.4, PS.7.3.5, PS.7.3.6, NS.1.3.3, NS.1.3.5	Magnets and Simple Machines	Magnet and non-magnet Attraction and repulsion Creating a magnet	Forces Creating a magnet Gravity Differences in gravity Simple machines What is work?	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Harcourt science book pages F58-73, workbook pages from the Harcourt program, compass, magnets, AR-7 copy 1 per student, magnetic and nonmagnetic items, paperclips, and N and S magnets.
PS.6.3.1, PS.6.3.2, PS.6.3.3, PS.7.3.1, NS.1.3.1, NS.1.3.2, NS.1.3.3	Energy (Potential, Kinetic, Chemical, Heat, Light, and Electrical)	Reflection, refraction, and absorption Wave amplitude and frequency	Groundhog and his shadow Light and sound energy Types of energy Labeling observed energies	Students' journals, workbook pages, analysis and discussion of	Pages 391-405 in the science book, Flash light, object, chalk, shadow journal 1 per student,

		Sound and wave motions Variations in Pitch	Potential and Kinetic Energy Light energy and shadows Transfer of heat Static energy Electricity in Arkansas What is that sound? Making musical instruments How do vocal chords work? Sound and how it travels The human ear Sound traveling through different states of matter	experiments, tests, daily work, and teacher observation.	measuring tape, paper groundhog, craft sticks, chart paper, windup toy, small lamp, 1 rope per group, glass of ice water, metal spoon, glass of warm water, flashlight, mirror, balloon per each pair of students, paper bags, various objects around the room, block of wood, water, and transparency of ear diagram.
		4th Nine Weeks			
NS.1.3.1, NS.1.3.2, NS.1.3.3, NS.1.3.4, NS.1.3.6, LS.2.3.1, LS.2.3.2, LS.3.3.3	Plants, Animals, and Humans	Vertebrates or invertebrates Life cycles Respiratory and muscular system Plants Ecosystems Needs of a Plant Seeds Parts of the plant Parts of a Seed Life cycle of a plant Needs of animals	Charting the needs of a plant How can a plant survive? Graph plants survival Draw and label plant parts Dissect a seed Compare and contrast the needs of plants and animals Oh Deer! game What is in my ecosystem? Vertebrae and invertebrate Animal life cycles Animals and their adaptations	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Harcourt science book pages A 6-7, A 12-17, A 34-39, B 12- 31, workbook pages from the Harcourt program, copied pages from other science book, lima seeds, wagon wheel pasta or jelly rings, 4 pipe cleaners per pair of students, poster board, 1 pipe cleaner, 3 plants, soil, chart paper, butcher paper or construction paper,
NS.1.3.1, NS.1.3.3, NS.4.3.2, ES.9.3.1, LS.2.3.2, NS.1.3.6	Living Things	Living things and food Food and Energy Food Chains Food Webs Respiratory System Muscular system	Roles in a food chain Why we need food Difference in food chains and food webs Become a food chain Become a food web Create a lung Watch your muscles	Students' journals, workbook pages, analysis and discussion of experiments, tests, daily work, and teacher observation.	Copied pages from science book, Index cards, yarn, clear cup, play-doh, rubber band, small balloon, and large balloon.