

South Conway County School District

4th Grade Science

Arkansas Curriculum Framework (SLE)	Learning Goal (Objective)	Assessment/Bloom's	Essential Vocabulary *teacher word (For Future Use)	Materials/Resources (For Future Use)
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First Quarter

PS 5.4.1	Demonstrate multiple ways to classify objects	Analysis		
LS 2.4.1	Classify vertebrates into major subgroups: Mammals, birds, fish, amphibians, and reptiles	Application		
LS 2.4.2	Classify some invertebrates according to their structure: mollusks, segmented worms, and arthropods	Application		
LS 4.4.1	Recognize environmental adaptations of plants and animals	Knowledge		
LS 4.4.2	Illustrate the interdependence of organisms in an ecosystem	Knowledge		
NS 1.4.8	Develop a hypothesis based on prior knowledge and observations	Synthesis		
NS 1.4.9	Identify variables that affect investigations	Knowledge		
NS 1.4.3	Conduct scientific investigations individually and in teams: lab activities and field studies	Synthesis		
NS 1.4.12	Evaluate the quality and feasibility of an idea or project	Evaluation		
NS 1.4.1	Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, bar graphs, frequency tables, and line graphs	Synthesis		
NS 1.4.10	Identify patterns and trends in data	Knowledge		
NS 1.4.2	Refine questions that guide scientific inquiry	Application		
NS 1.4.11	Generate conclusions based on evidence	Comprehension		
NS 1.4.14	Apply lab safety rules as they relate to specific lab activities	Application		
NS 1.4.7	Collect and interpret measurable empirical evidence in teams and as individuals	Application		

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Second Quarter				
LS 2.4.3	Identify major parts and functions of the following systems: digestive, circulatory, and nervous	Knowledge		
NS 1.4.3	Conduct scientific investigations individually and in teams: lab activities and field studies	Synthesis		
NS 1.4.1	Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, bar graphs, frequency tables, and line graphs	Synthesis		
NS 1.4.7	Collect and interpret measurable empirical evidence in teams and as individuals	Application		
NS 1.4.5	Communicate the designs, procedures, and results of scientific investigations	Synthesis		
PS 5.4.2	Demonstrate chemical changes in matter	Analysis		
PS 5.4.3	Compare and contrast gases to solids and liquids	Evaluation		
PS 6.4.1	Investigate the relationship between force and direction	Analysis		
PS 6.4.2	Investigate the relationship between force and mass	Analysis		
Third Quarter				
PS 7.4.2	Classify electrical conductors and electrical insulators	Application		
PS 7.4.3	Construct simple circuits from circuit diagrams	Analysis		
ESS 8.4.1	Locate natural divisions of Arkansas: Ozark Plateau, Ouachita Mountains, Crowley's Ridge, Mississippi Alluvial Plain (Delta), Coastal Plain, Arkansas River Valley	Knowledge		
ESS 8.4.2	Analyze the impact of using natural resources	Analysis		
ESS 8.4.3	Differentiate between renewable and non-renewable resources	Evaluation		
ESS 8.4.4	Evaluate the impact of water pollution	Evaluation		
ESS 8.4.5	Evaluate the impact of Arkansas' natural resources on the economy, including farming, timber, tourism, hunting, and fishing	Evaluation		
ESS 8.4.6	Evaluate human use of Arkansas' natural resources on the environment, including mining, clear cutting, and dredging	Evaluation		
ESS 9.4.1	Analyze changes to Earth's surface: erosion, glaciations, weathering, earthquakes, and volcanic activity	Analysis		
NS 1.4.6	Estimate and measure length, mass, temperature, capacity/volume, and elapsed time using International System of Units(SI)	Application		
NS 1.4.13	Use simple equipment, age appropriate tools, technology, and mathematics in scientific investigations (balances, hand lens, microscopes, rulers, thermometers, calculators, and computers)	Application		

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NS 1.4.7	Collect and interpret measurable empirical evidence in teams and as individuals	Application		

Forth Quarter

ESS 8.4.11	Construct and read instruments to collect weather data: barometer, weather vane, and anemometer	Application		
PS 7.4.1	Interpret trends in temperature over time using the Celsius scale	Application		
ESS 8.4.8	Organize weather data into tables or charts to identify trends and patterns	Synthesis		
ESS 8.4.9	Demonstrate safety procedures related to severe weather	Synthesis		
NS 1.4.3	Conduct scientific investigations individually and in teams: lab activities and field studies	Synthesis		
NS 1.4.7	Collect and interpret measurable empirical evidence in teams and as individuals	Application		
NS 1.4.1	Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, bar graphs, frequency tables, and line graphs	Synthesis		
ESS 8.4.10	Describe weather-related natural disasters	Knowledge		
NS 1.4.5	Communicate the designs, procedures, and results of scientific investigations	Synthesis		
NS 1.4.10	Identify patterns and trends in data	Knowledge		
ESS 8.4.7	Describe the processes of the water cycle: precipitation, evaporation, and condensation	Knowledge		
ESS 4.4.2	Illustrate the interdependence of organisms in an ecosystem	Knowledge		