

Helena-West Helena School District

# 4<sup>th</sup> Grade Science

UNIT	1	2	3	4	5	6	7	8
<b>NAME</b>	We are Scientists	Force and Electricity	Matter	Weather	Ecosystems	Arkansas	Organ Systems	Fifth Grade
<b>LENGTH</b>	4 weeks	2 weeks	2 weeks	3 weeks	8 weeks	5 weeks	4 weeks	8 weeks
<b>9 WEEKS</b>	1st	1st	1 <sup>st</sup>	1 <sup>st</sup> & 2nd	2 <sup>nd</sup> & 3rd	3rd	3 <sup>rd</sup> & 4th	4th
<b>SLEs</b>	NS.1.4.1 NS.1.4.2 NS.1.4.3 NS.1.4.5 NS.1.4.6 NS.1.4.7 NS.1.4.8 NS.1.4.9 NS.1.4.10 NS.1.4.11 NS.1.4.12 NS.1.4.13 NS.1.4.14	PS.6.4.1 PS.6.4.2 PS.7.4.2 PS.7.4.3	PS.5.4.2 PS.5.4.3	PS.7.4.1 ESS.8.4.7 ESS.8.4.8 ESS.8.4.9 ESS.8.4.10 ESS.8.4.11	LS.2.4.1 LS.2.4.2 LS.4.4.1a LS.4.4.1b LS.4.4.2	ESS.8.4.1 ESS.8.4.2 ESS.8.4.3 ESS.8.4.4 ESS.8.4.5 ESS.8.4.6 ESS.9.4.1a ESS.9.4.1b ESS.9.4.1c ESS.9.4.1d ESS.9.4.1e	LS.2.4.3a LS.2.4.3b LS.2.4.3c	Preview of upcoming SLEs covered in fifth grade Arkansas Frameworks (at teacher's discretion)
<b>READING RST 6-8</b>	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
<b>WRITING WHST 6-8</b>	1							
	2							
	4							
	5							
	6*							
	7							
	8							
	9							
	<b>MATH STRAND</b>	1		6NS	6NS		6NS	6NS
2			6SP & 6NS	6NS		6SP & 6NS	6NS	6SP & 6NS
3			6SP		6RP	6RP & 6SP		6RP & 6SP
4			6SP	6SP4		6SP	6SP	6SP
5			6NS	6NS		6NS	6NS	6NS
6								
<b>MATH PRACT ICES</b>	1							
	2							
	3							
	4							
	5							

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	6							
	7							
	8							

\* Standard is equivalent to NS.13.B.3

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NAME	We are Scientists	Force and Electricity	Matter	Weather	Ecosystems	Arkansas	Organ Systems	Fifth Grade
TRANSFERS	<p><i>Students will be able to independently use their learning to...</i></p> <p>Follow procedures and use appropriate tools to ensure accuracy and validity.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Distinguish between conductors and insulators of electricity in everyday life.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Explain changes from the three states of matter in real-world situations.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Identify and use various weather tools in order to predict and record changes in weather and environment.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Construct a food web to show the interdependence of organisms in an ecosystem.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Describe how the natural resources of each region of Arkansas affects the economy of the area.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Relate the function of each organ system and organ to the overall health of the body.</p>	<p><i>Students will be able to independently use their learning to...</i></p> <p>Utilize previous skills to preview and acquire new scientific concepts.</p>

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<p>VOCABULARY</p>	<p>Observation T-charts Pictographs Venn diagrams Bar graphs Frequency tables Line graphs Scientific inquiry Scientific method Question Hypothesis Materials Procedure Experiment Results Conclusion Length Mass Temperature Capacity Volume Elapsed time Metric units Data Evidence Interpret Variable Investigation Trends Pattern Evaluate Rubric Quality Balance Hand lens Microscope Ruler Thermometer Calculator Equipment</p>	<p>Force Direction Mass Conductor Insulator Electricity Simple circuit Series circuit Parallel circuit</p>	<p>Matter Solid Liquid Gas Chemical change Properties Venn diagram</p>	<p>Celsius scale Trends Water cycle Precipitation Evaporation Condensation Trends Pattern Severe weather Safety procedure Natural disasters Tornadoes Hurricanes Typhoons Blizzards Thunderstorms Floods Wildfires Monsoons Barometer Weather vane Anemometer</p>	<p>Vertebrates Characteristics Subgroup Invertebrates Adaptation Environmental adaptation Organisms Interdependence Food chain Food web Producer Consumer Decomposer</p>	<p>Region Natural resources Impact Renewable resources Non-renewable resources Pollution Impact Economy Timber Tourism Environment Clear cutting Dredging</p>	<p>Digestive system Functions Circulatory system Nervous system</p>	
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<p><b>LAB ACTIVITIES</b></p>	<p>“Five Senses” practice observing and recording events and objects using all five senses</p> <p>“How Science Works” follow along with a Mythbusters episode to discuss the steps of the scientific method</p> <p>“Estimate and Measure” using SI units, estimate and measure objects around the classroom and school</p> <p>“What’s a Graph?” rotate to different centers, each highlighting a different type of graph to read and interpret</p>	<p>“Make a Connection” create a simple, series, and parallel circuit</p> <p>“Hot or Cold?” race to identify the most conductors and insulators on a scavenger hunt in class</p>	<p>“Eggs Soaked” soak eggs in either vinegar or Coke to observe the effects of either a physical or chemical change</p> <p>“Oobleck” create oobleck and observe changes in states of matter</p> <p>“Three in One” combine baking soda and vinegar to show solids and liquids forming a gas</p>	<p>“Wherever the Wind Blows” create and correctly use various weather instruments (anemometer, weather vane, barometer)</p> <p>“Landslide” simulate erosion using potting soil and a cup of water</p>	<p>“Food Fight” partners will take turns simulating food webs and growing animal populations using the BrainPop game “Food Fight”</p> <p>“Predators in the Biome” create food webs using organisms in a variety of biomes around the world</p>	<p>“Regions of Arkansas” draw, label, and cut out the regions of Arkansas on a map</p> <p>“Regional Festivals” research festivals specific to the regions and resources found in Arkansas, and create a festival brochure highlighting resources, landscape, and regional history</p>	<p>“What Happens to a Hamburger?” read the book <u>What Happens to a Hamburger?</u> to introduce the digestive system; simulate digestion by breaking a sugar cube in a cup and adding water</p> <p>“Life Size” small groups will draw a life-size human body and draw proportional organs found in a chosen organ system</p>	
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