

Science Curriculum Grade 4th
Cross County School

Science Skill	Concept	District Objective	Curricular Indicator	Performance Level	Pacing	Instructional Materials/ Class Activities	Intervention	Assessment Local	Assessment NeSA
Inquiry	Scientific Questioning	Ask testable scientific questions (weather, simple machines, electricity)	5.1.1.a						
	Scientific Investigations	Plan and Conduct investigations and identify factors that have the potential to impact an investigation (past/present earth, simple machines)	5.1.1.b						
	Scientific Tools	Select and use equipment correctly and accurately	5.1.1.c						
	Scientific Observations	Make relevant observations and measurements (weather)	5.1.1.d						
	Scientific Data Observations	Collect and organize data (categorize rocks, weather)	5.1.1.e						
	Scientific Interpretations, Refractions, and Applications	Develop a reasonable explanation based on collected data (weather, past/present earth)	5.1.1.f						
	Scientific Communication	Share information, procedures, and results with peers and/or adults (simple machines)	5.1.1.g						
	Scientific Communication	Provide feedback on scientific investigations (simple machines, light reflection)	5.1.1.h						
	Mathematics	Use appropriate mathematics in all aspects of scientific inquiry (solar system, weather, climate)	5.1.1.i						
	Scientific Knowledge	Recognize that scientific explanations are based on evidence and scientific knowledge (solar system)	5.1.2.a						
	Science and Society	Recognize that new discoveries are always being made which impact scientific knowledge (solar system, past/present earth)	5.1.2.b						

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	Science as a Human Endeavor	Recognize many different people study science (simple machines)	5.1.2.c						
	Abilities to do Technical Design	Identify a simple problem (simple machines, circuits)	5.1.3.a						
		Propose a solution to a simple problem (simple machines, circuits)	5.1.3.b						
		Implement the proposed solution (simple machines, circuits)	5.1.3.c						
		Evaluate the implementation (simple machines, circuits)	5.1.3.d						
		Communicate the problem, design, and solution (simple machines, circuits)	5.1.3.e						
Earth and Space	Solar System	Identify and describe characteristics of bodies in the solar system, such as planets, sun, moon, etc	L	I	Oct/Nov (4-6 weeks)				
	Properties of Earth Materials	Describe the 3 types of rocks and their characteristics (sedimentary, igneous, metamorphic)	5.4.2.a	I/M	Aug/Sept (4-6 weeks)				
	Properties of Earth Materials	Describe various types of soil (clay, loam, sand)	5.4.2.a	I/M	Aug/Sept (4-6 weeks)				
	Properties of Earth Materials	Describe the characteristics of minerals	5.4.2.a	I/M	Aug/Sept (4-6 weeks)				
	Earth's Processes & Past/Present Earth	Identify weathering, erosion, and deposition as processes that build up or break down the earth's surface (slow processes)	5.4.2.b 5.4.4.a	I/M	Aug/Sept (4-6 weeks)				

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	Past/Present Earth	Describe how rapid processes such as landslides, volcanic eruptions, earthquakes change earth's surfaces	5.4.4.a	I/M	Aug/Sept (4-6 weeks)				
	Weather and Climate	Observe, measure, and record weather changes such as temperature, wind directions, wind speed, and precipitation	5.4.3.b	I/M	March/April (4-6 weeks)				
Physical	Forces/Newton's 2nd Law	Describe in motion, such as push, pull, and gravity (simple machine unit)	5.2.2.b	I/M	Jan/Feb (4-6 weeks)				
	Force	List and explain 6 simple machines as well as compound machines	L	I/M	Jan/Feb (4-6 weeks)				
	Light	Explain that light travels in a straight line and can be reflected by an object such as a mirror (reflection)	5.2.3.b	I/M	Dec (2-3 weeks)				
	Light	Explain and describe refraction	5.2.3.b	I/M	Dec (2-3 weeks)				
	Light	Define opaque, translucent, transparent materials and explain how light travels through them (compare/contrast different materials)	5.2.3.c	I/M	Dec (2-3 weeks)				
	Electricity	Identify materials that serve as conductors and insulators	5.2.3.f	I/M	Feb/March (4-6 weeks)				
	Electricity	Explain that the transfer of electricity requires a closed circuit (circuits, uses of electricity, static electricity and discharge)	5.2.3.f	I/M	Feb/March (4-6 weeks)				
Life	Personal Health	Introduce exercise and fitness in relation to health		R	May (2 weeks)				

