Science Curriculum Grade 8th
Cross County School

Science Skill	Concept	District Objective	Curricular Indicator	Performance Level	Pacing	Instructional Materials/ Class Activities	Intervention	Assessment Local	Assessment NeSA
	Energy	Describe and demonstrate how vibrations set up wave-like disturbances that spread away from the source.	SC8.2.3.a	I					
	Energy	Investigate how waves move at different speeds through different substances.	SC8.2.3.b	I					
	Energy	Describe and demonstrate how light interacts with matter by transmission (including refraction), absorption, and scattering (including reflection)	SC8.2.3.c	P					
	Energy	Investigate how light and color are interpreted by the eye.	SC8.2.3.d	I					
	Energy	Distinguish the properties of heat and the typed of heat transfer.	SC8.2.3.e	I					
	Energy	Describe multiple types of heat transfer.	SC8.2.3.f	I					
	Ecosystems	Determine the biotic and abiotic factors that impact the number of organisms an ecosystem can support.	SC8.3.3.d	P					
	Ecosystems	Investigate positive and negative effects of natural and human activity on an ecosystem.	SC3.3.3.e	P					
	Adaptations	Describe how inherited characteristics enable an organism to improve its survival rate.	SC8.3.4.a	I					
	Adaptations	Investigate how human behavior can affect the survival of a species.	SC8.3.4.b	I					
	Adaptations	Investigate anatomical features of organisms to infer similarities among other organisms.	S8.3.4.c	I					
	Space	Describe the components of the solar system .	SC8.4.1.a	I,P					
	Space	Describe the relationship between motion of objects in the solar system.	SC8.4.1.b	I					
	Earth History	Investigate earths process and describe how these processes are linked to the past.	SC8.4.4.a	I					
	Earth History	Describe the fossil record and how the environment has canged it.	SC8.4.4.b	I					

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	Abilities to do Scientific Inquiry	Students will design and conduct investigations that will lead to descriptions of relationships between evidence and explanations.	SC8.1.1						
	Scientific Questioning	Formulate testable questions that lead to predictions and scientific investigations	SC8.1.1.a						
	Scientific Investigations	Design and conduct logical and sequential investigations including repeated trials	SC8.1.1.b						
	Scientific Controls and Variables	Determine controls and use dependent (responding) and independent (manipulated) variables	SC8.1.1.c						
	Scientific Tools	Select and use equipment appropriate to the investigation, demonstrate correct techniques, and apply appropriate mathematical concepts	SC8.1.1.d						
	Scientific Observations	Make qualitative and quantitative observations	SC8.1.1.e						
	Scientific Data Collection	Record and represent data appropriately and review for quality, accuracy, and relevancy	SC8.1.1.f						
	Scientific Interpretations, Reflections, and Applications	Evaluate predictions, draw logical inferences based on observed patterns/relationships, and account for non-relevant information	SC8.1.1.g						
	Scientific Communication	Share information, procedures, results, and conclusions with appropriate audiences	SC8.1.1.h						
	Mathematics	Use appropriate mathematics in all aspects of scientific inquiry	SC8.1.1.j						

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	2. Nature of Science	Students will apply the nature of science to their own investigations.	SC8.1.2						
	Scientific Knowledge	Recognize science is an ongoing process and the scientific community accepts and uses explanations until they encounter new experimental evidence not matching existing explanations	SC8.1.2.a						
	Science and Society	Describe how scientific discoveries influence and change society	SC8.1.2.b						
	Science as a Human Endeavor	Recognize scientists from various cultures have made many contributions to explain the natural world	SC8.1.2.c						
	3. Technology	Students will solve a design problem which involves one or two science concepts.	SC8.1.3						
	Abilities to do Technical Design	Identify problems for technical design	SC8.1.3.a						
		Design a solution or product	SC8.1.3.b						
		Implement the proposed design	SC8.1.3.c						
		Evaluate completed technological designs or products	SC8.1.3.d						
		Communicate the process of technical design	SC8.1.3.e						
	Understanding of Technical Design	Distinguish between scientific inquiry (asking questions about the natural world) and technological design (using science to solve practical problems)	SC8.1.3.f						
		Describe how science and technology are reciprocal	SC8.1.3.g						
		Recognize that solutions have intended and unintended consequences	SC8.1.3.h						
		Compare and contrast the reporting of scientific knowledge and the reporting of technological knowledge	SC8.1.3.i						