

Science Curriculum Grade 7th
Cross County School

Science Skill	Concept	District Objective	Curricular Indicator	Performance Level	Pacing	Instructional Materials/ Class Activities	Intervention	Assessment Local	Assessment NeSA
		Students will investigate and describe forces and motion.		P					
	Force/Motion	Investigate motion.	SC8.2.2.a	P					
	Force/Motion	Compare and contrast elements of motion. Speed, velocity, acceleration, momentum, and inertia.	SC8.2.2.a	P					
	Force/Motion	Utilize equations for all elements of motion and perform accurate calculations.	SC8.2.2.a	I					
	Force/Motion			I					
	Force/Motion	Investigate Newtons 1st Law of Motion.	SC8.2.2.b	I,P					
	Force/Motion	Investigate Newtons 2nd Law of Motion.	SC8.2.2.c	I,P					
	Force/Motion	Gravity	SC8.2.2.d	I,P					
	Living Things	Compare and contrast the levels of organization of organisms.	SC8.3.1.a	I					
	Living Things	Describe the parts and types of cells.	SC8.3.1.b	I					
	Living Things	Investigate how cells reproduce and use energy.	SC8.3.1.b	I					
	Living Things	Compare and contrast sexual and asexual reproduction.	SC8.3.1.b	I					
	Living Things	Label parts of a microscope and demonstrate how to use it.	SC8.3.1.b	I					
	Living Things	Demonstrate how to create a slide for microscope use.	SC8.3.1.b	I					
	Living Things	Compare and contrast how cells can perform specialized functions.	SC8.3.1.c	I					
	Living Things	Identify the organs and functions of the major systems of the body.	SC8.3.1.d	I					
	Living Things	Describe how the systems of the body interact with one another.	SC8.3.1.d	I					

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	Heredity	Describe heredity and how genetic information is found on the chromosomes in most cells.	SC8.3.2.a	I					
	Heredity	Investigate common traits and perform probability using a punnett square.	SC8.3.2.b	I					
	Climate	Describe the mixture of gases in Earth's atmosphere and how the atmosphere's properties change at different elevations.	SC8.4.2.c	I					
	Climate	Describe the water cycle.	SC8.4.2.g	P					
	Climate	Investigate and describe factors that influence daily and seasonal changes on earth.	SC8.4.3.b	P					
	Climate	Describe atmospheric movements that influence weather and climate.	SC8.4.3.c	I					
	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						

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	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						
	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						

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		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						