

K-5 Strands & NC Essential Standards for Science

	Physical Science			Earth Science		Life Science		
K	Force and Motion Positions and Motions of objects and organisms (K.P.1)	Matter: Properties & Change Physical properties & uses of objects (K.P.2)		Earth Systems, Structures & Processes Changes in Daily & Yearly Weather Patterns (K.E.1)		Structures & Functions of Living Organisms Comparing characteristics of animals and nonliving things (K.L.1)		
1	Force and Motion Pushes and Pulls (Forces) affect Motion of an Object (1.P.1)			Earth Systems, Structures & Processes Physical Properties and Uses of Earth Materials (1.E.2)	Earth in the Universe Features & Patterns of the Earth/Moon/Sun System (1.E.1)		Ecosystems Environment Characteristics: Needs of Plants and Animals for Survival (1.L.1)	Molecular Biology Needs of Plants and Animals for Energy and Growth (1.L.2)
2	Force and Motion Sound and Vibrating Objects (2.P.1)	Matter: Properties & Change Properties and Changes of solids and liquids (2.P.2)		Earth Systems, Structures, & Processes Patterns and Factors Affecting Weather (2.E.1)		Structures & Functions of Living Organisms Animal Life Cycles (2.L.1)		Evolution & Genetics Comparing Characteristics of Organisms based on their Parents (2.L.2)
3	Force and Motion Force and Motion: Speed and Direction (3.P.1)	Matter: Properties & Change Matter: Structure, Properties and Change (3.P.2)	Energy Conservation & Transfer Energy Transfer (3.P.3)	Earth Systems, Structures, & Processes Earth's land and water Surface Features: Models or 3D Diagrams (3.E.2)	Earth in the Universe Components and patterns in the Earth/Moon/Sun system (3.E.1)	Structures & Functions of Living Organisms Human body systems (Skeletal, Muscular and Skin) are Essential for Life: Protection, Movement and Support (3.L.1)	Ecosystems Plants Survival in their Environments (3.L.2)	
4	Force and Motion Forces and Motion: Magnets and Electrically Charged Objects (4.P.1)	Matter: Properties & Change Composition and properties of matter before and after they undergo a change or interaction (4.P.2)	Energy Conservation & Transfer Forms of Energy based on interactions with matter (4.P.3)	Earth History Using Fossils and Changes in the Surface of Earth as Evidence of the History of Earth and its Changes (4.E.2)	Earth in the Universe Causes of Day and Night and Phases of the Moon (4.E.1)		Ecosystems Animals in Environments: Changes, Behaviors, and Adaptations (4.L.1)	Molecular Biology Food and benefits of Vitamins, Minerals and Exercise (4.L.2)
5	Force and Motion Force and Motion: Gravity, Distance, Position, and Mass (5.P.1)	Matter: Properties & Change Interactions and changes of Matter and Energy (5.P.2)	Energy Conservation & Transfer Heating and Cooling changes Properties of Matter (5.P.3)	Earth Systems, Structures, & Processes Weather Patterns and Phenomena, Connecting Weather in a Particular Place and Time (5.E.1)		Structures & Functions of Living Organisms Structures and Systems of Organisms (to include the human body) performing Functions Necessary for Life (5.L.1)	Ecosystems Interdependence of Plants and Animals with their Ecosystem (5.L.2)	Evolution & Genetics Organisms Compared to their Parents based on the Characteristics (5.L.3)