Science 5th Grade

Indicators (tested indicators are bold)	Standards	Additional Specificity	Month
Formulate and recognize questions related to scientific investigations	**S.5.1.1.1**	explores properties and phenomena of various materials and generates testable questions to investigate.	(Scientific Inquiry) Aug./Sept/Oct. (continued throughout the year)
Plan and conduct simple investigations using appropriate procedures and equipment	**S.5.1.1.2, S.5.1.1.3**	a. designs and conducts an investigation on a question;example, What is the effect of light on plant growth?Components of the investigation may include background and hypothesis, identification of variables (independent variable,dependent variable, variables to be held constant), list of materials, procedures, collection and analysis of data, and conclusions. b. given an investigative question, determines what to measure and how to measure. c. displays data collected from performing in investigation using tables, graphs, diagrams and other graphic organizers.	(Science & Technology)
Identify relationships between evidence and logical conclusions	**S.5.1.1.3**	a. checks data to determine: Was the question addressed? Was the hypothesis supported/not supported? Did this design work? How could this experiment be improved? What other questions could be investigated?	
Communicate and analyze their own investigations	**S.5.1.1.4,**	b. looks for patterns from the mean of multiple trials, such as the rate of dissolving relative to different temperatures. c. uses observations for inductive and deductive reasoning, such as explaining a person's energy level after a change in	
Identifies simple design problems	**S.5.5.1.1**	eating habits (e.g., uses Likert-type scale).	
The student will apply process skills to develop an understanding of physical science including: properties, changes of properties of matter, motion and forces, and transfer of energy.	5.2.1.1	compares and classifies the states of matter; solids, liquids, gases, and plasma compares and contrasts the classes of matter; elements,compounds, and mixtures. identifies and communicates properties of matter including but not limited to, boiling point, solubility, and density.	Nov./Dec./Jan.
Describe properties and process of water cycle	**S.5.2.3.2**	investigates water's major role in changing the solid surface of earth, such as the effect of oceans on climates and water as an erosion force.	(Earth/Space) Feb./Mar.
Demonstrate and model relationships explaining phenomena such as day/ night, the month, the year, seasons, moon phases	**S. 5.4.4.1**	models spatial relationships of the earth/moon/ planets/sun system to scale.	
Recognize that all populations living together and the physical factors with which they interact compose an ecosystem	**S.5.3.4.1**	recognizes that all populations living together (biotic resources) and the physical factors (abiotic resources) with which they interact compose an ecosystem.	(Life) April
Traces energy flow from he Sun to producers to consumers to decomposers	**S.5.3.4.3**	traces the energy flow from the sun (source of radiant energy) to producers (via photosynthesis – chemical energy) to consumers and decomposers in food webs.	

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Recognize nutritional value of various foods and their contribution to health	**S.5.6.1.1**	designs, implements, and self-evaluates a personal nutrition and exercise program.	(Perspectives) May
Investigate the effects of human activities on the environment	**S.5.6.2.1**	investigates the effects of human activities on the environment and analyzes decisions based on the knowledge of benefits and risks.	