

Reporting Category	Colorado Academic Standards Summative Assessment Framework - FINAL Science Grade 5	% of Score Points of Total Test	Points		
			For Concept/ Skill	For Concept/ Skill and SI/NS*	Total
1	Physical Science	25%	12	8	20
	1. Mixtures of matter can be separated regardless of how they were created; all weight and mass of the mixture are the same as the sum of weight and mass of its parts a. Develop, communicate, and justify a procedure to separate simple mixtures based on physical properties (DOK 1-3) b. Share evidence-based conclusions and an understanding of the impact on the weight/mass of a liquid or gas mixture before and after it is separated into parts (DOK 1-3)				
2	Life Science	37.5%	20	10	30
	1. All organisms have structures and systems with separate functions a. Develop and communicate an evidence-based scientific explanation of the role of different organs or structures that are important for an organism's survival – in both plants and animals (DOK 1-3) b. Analyze and interpret data to generate evidence that all organisms have structures that are required for survival in both plants and animals (DOK 1-2) c. Create and evaluate models of plant and/or animal systems or parts (DOK 2-3) 2. Human body systems have basic structures, functions, and needs a. Develop and communicate an evidence-based scientific explanation regarding how humans address basic survival needs (DOK 1-3) b. Analyze and interpret data to generate evidence that human systems are interdependent (DOK 1-2) c. Assess further scientific explanations regarding basic human body system functions (DOK 1-3) d. Create and evaluate models of human body systems and organs (DOK 2-3) e. Compare and contrast a human system to that of another organism, and provide hypotheses about why the similarities and differences exist (DOK 2-3)				

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3	Earth Systems Science	37.5%	18	12	30
	<p>1. Earth and sun provide a diversity of renewable and nonrenewable resources</p> <p>a. Develop and communicate a scientific explanation addressing a question of local relevance about resources generated by the sun or Earth (DOK 1-3)</p> <p>b. Analyze and interpret a variety of data to understand the origin, utilization, and concerns associated with natural resources (DOK 1-3)</p> <p>2. Earth's surface changes constantly through a variety of processes and forces</p> <p>a. Analyze and interpret data identifying ways Earth's surface is constantly changing through a variety of processes and forces such as plate tectonics, erosion, deposition, solar influences, climate, and human activity (DOK 1-2)</p> <p>b. Develop and communicate an evidence based scientific explanation around one or more factors that change Earth's surface (DOK 2-3)</p> <p>3. Weather conditions change because of the uneven heating of Earth's surface by the Sun's energy. Weather changes are measured by differences in temperature, air pressure, wind, and water in the atmosphere and type of precipitation</p> <p>a. Develop and communicate an evidence-based scientific explanation for changes in weather conditions (DOK 1-3)</p> <p>b. Gather, analyze, and interpret data such as temperature, air pressure, wind, and humidity in relation to daily weather conditions (DOK 1-3)</p> <p>c. Describe weather conditions based on data collected using a variety of weather tools (DOK 1-2)</p> <p>d. Use data collection tools and measuring devices to gather, organize, and analyze data such as temperature, air pressure, wind, and humidity in relation to daily weather conditions (DOK 1-2)</p>				

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4	Scientific Investigations and the Nature of Science (SI/NS)	37.5%	The 30 points for SI will be distributed among the 3 standards.		
	Asking testable questions, make a falsifiable hypothesis, design an inquiry based method of finding the answer				
SC09-GR.5-S.1-GLE.1-N.1	Ask testable questions about mixtures, make a falsifiable hypothesis, design an inquiry based method of finding the answer, collect data, and form a conclusion. (DOK 2-3)				
SC09-GR.5-S.3-GLE.2-N.1	Ask testable questions about how the earth surface changes. (DOK 2)				
	Share results of experiments with others and respectfully discuss results				
SC09-GR.5-S.1-GLE.1-N.3	Share results of experiments with others and respectfully discuss results that are not expected. (DOK 2-3)				
SC09-GR.5-S.3-GLE.3-N.1	Support explanations of weather using evidence. (DOK 2-3)				
	Critically evaluate scientific models				
SC09-GR.5-S.2-GLE.2-N.2	Critically evaluate models of the human body, identifying the strengths and weaknesses of the model in representing complex natural phenomena. (DOK 2-3)				
	Review and analyze information presented by peers and provide feedback on their evidence and scientific reasoning				
SC09-GR.5-S.1-GLE.1-N.4	Review and analyze information presented by peers and provide feedback on their evidence and scientific reasoning about the separation of mixtures and how the separation impacts its total weight/mass. (DOK 2-3)				
SC09-GR.5-S.2-GLE.1-N.1	Review and analyze information presented by peers and provide feedback on their evidence regarding the importance of various structures to plants and animals. (DOK 2-3)				
SC09-GR.5-S.2-GLE.2-N.1	Review and analyze information presented by peers on the structure and function of the human body and provide feedback on their evidence and scientific conclusions. (DOK 2-3)				
SC09-GR.5-S.3-GLE.1-N.1	Review and analyze scientific explanations about natural resources presented by their peers, and provide feedback to push their peers to be scientifically accurate and base their claims on adequate and reasonable scientific evidence, not opinion. (DOK 2-3)				
SC09-GR.5-S.3-GLE.2-N.3	Assess and provide feedback on other's scientific explanations about factors that change Earth's surface, pushing for reasoning based on evidence and scientific principles (DOK 2-3)				
SC09-GR.5-S.3-GLE.3-N.3	Assess and provide feedback on other student's scientific explanations about weather, pushing for reasoning based on evidence and scientific principles. (DOK 2-3)				
	Select and use appropriate tools				
SC09-GR.5-S.3-GLE.3-N.2	Understand how weather maps are utilized to predict the weather from day to day. (DOK 1-2)				
SC09-GR.5-S.1-GLE.1-N.2	Select appropriate tools to conduct an experiment, use them correctly, and report the data in proper units. (DOK 1-2)				
	Utilize a variety of media sources to collect data for analysis				
SC09-GR.5-S.3-GLE.2-N.2	Utilize a variety of media sources to collect data for analysis regarding Earth processes and the changing surface. (DOK 1-2)				
	TOTAL	100%	50	30	80

* Scientific Investigations and the Nature of Science (SI/NS)
3/15/17