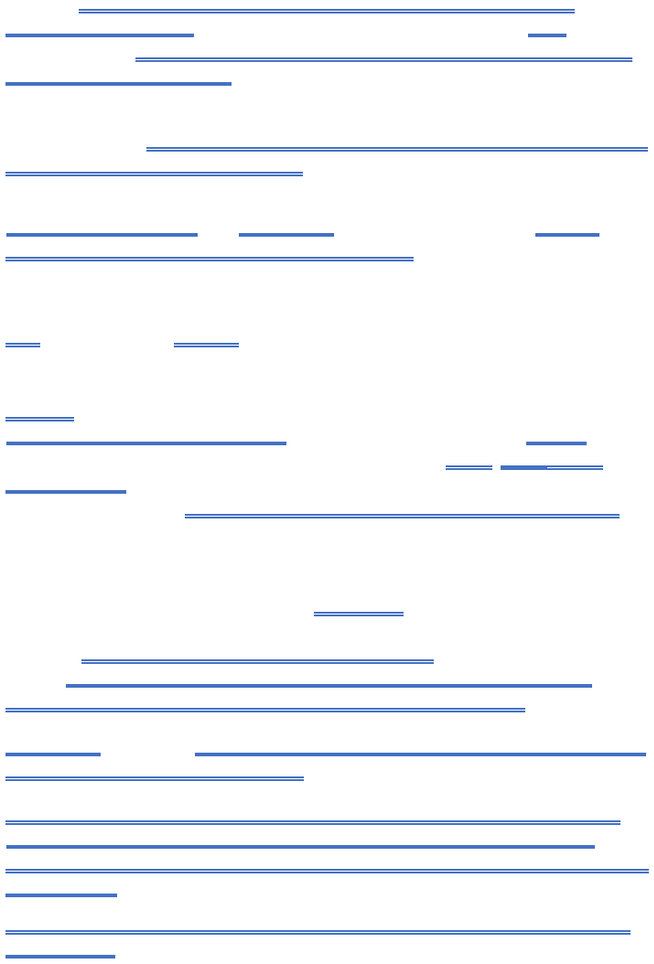

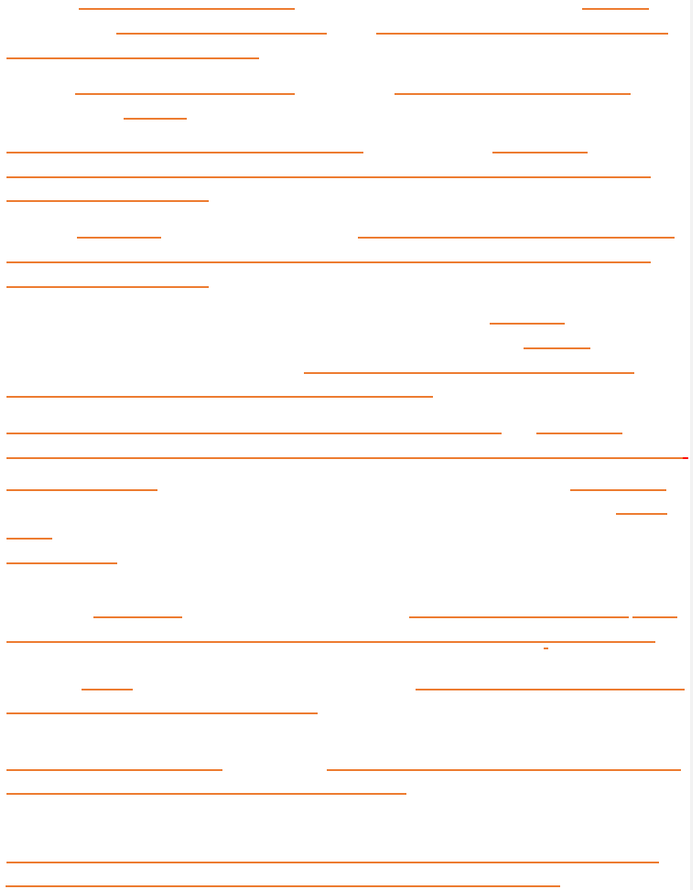

SCIENCE.4.2.B	analyze data by identifying any significant features, patterns, or sources of error;	4.2.D	analyze ~~and interpret~~ patterns to ~~construct reasonable~~ explanations ~~from data that can be observed and measured~~	The Knowledge and Skill statement 4.3 was developed for explanations.
SCIENCE.4.2.C	use mathematical calculations to compare patterns and relationships; and			
SCIENCE.4.2.D	evaluate a design or object using criteria.	~~4.2F~~	~~perform repeated investigations to increase the reliability of results; and~~	
SCIENCE.4.3	Scientific and engineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:			
SCIENCE.4.3.A	develop explanations and proposes solutions supported by data and models;	4.2.D	~~analyze and interpret patterns to construct reasonable~~ explanations from data ~~that can be observed and measured~~;	Analyzing and interpreting data have been moved into 4.2.B.
SCIENCE.4.3.B	communicate explanations and solutions individually and collaboratively in a variety of settings and formats; and	4.2.F	communicate ~~valid oral and written results supported by data~~.	Students are now being asked to communicate not only as scientists but also as engineers.
SCIENCE.4.3.C	listen actively to others' explanations to identify relevant evidence and engage respectfully in scientific discussion	4.3.A	~~analyze, evaluate, and critique scientific~~ explanations ~~by using~~ evidence, ~~logical reasoning and experimental and observational testing~~;	
SCIENCE.4.4	Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation for society. The student is expected to:	4.3.C	~~connect grade-level appropriate science concepts with the history of science, science careers,~~ and contributions of scientists.	
SCIENCE.4.4.A	explain how scientific discoveries and innovative solutions to problems impact science and society; and			
SCIENCE.4.4.B	research and explore resources such as museums, libraries, professional organizations, private companies, online platforms, and mentors employed in a science, technology, engineering, and mathematics (STEM) field to investigate STEM careers.			
SCIENCE.4.5	Recurring themes and concepts. The student understands that recurring themes and concepts provide a framework for making connections across disciplines. The student is expected to:			
SCIENCE.4.5.A	identify and use patterns to explain scientific phenomena or to design solutions;			
SCIENCE.4.5.B	identify and investigate cause and effect relationships to explain scientific phenomena or analyze problems;			
SCIENCE.4.5.C	use scale, proportion, and quantity to describe, compare, or model different systems;			
SCIENCE.4.5.D	examine and model the parts of a system and their interdependence in the function of the system;			
SCIENCE.4.5.E	investigate the flow of energy and cycling of matter through systems;			
SCIENCE.4.5.F	explain the relationship between the structure and function of objects, organisms, and systems; and			
SCIENCE.4.5.G	explain how factors or conditions impact stability and change in objects, organisms, and systems. stability change ship 65putT1_0 1 Tfc(factors)Tj /T1_0 1 Tf ( )Tj /TT1 1 Tf 3.035 0 Td (si9_0 1 Tf ( )Tj /TT1 1 Tf 3.146 0 Tdbeg 0 Td 283)Tj /TT1 a0 1 Tf ( )Tj /TT1 1 Tf 3.035 0 TTf			