2021 Knowledge and

SCIENCE.3.2	Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs. The student is expected to:	~~3.3~~	~~Scientific investigation and reasoning. The student knows that information, critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:~~	
SCIENCE.3.2.A	identify advantages and limitations of models such as their size, scale, properties, and materials;	of ot.4tTT4s203>Tj f 5.448 re f 329.88 22-8.16 0 TD 20 TD (student8 22-89.88 r TD 20 TD (9.o1 Tf o630ag .u98 7.08 re f6 -80003>Tj /TT4 no>Tj /T95TD (recofstifie5evidence)Tj /TT3 1 Tf 3.6475 0 TD <0372TT4 1 Tf -23.4629 -1.3088 TD		
SCIENCE.3.2.B	analyze data by identifying any significant features, patterns, or sources of error;	**3.2.D**	analyze ~~and interpret~~ patterns in data to ~~construct reasonable explanations based on evidence from investigations;~~	The Knowledge and Skill statement 3.3 was developed for explanations.
SCIENCE.3.2.C	use mathematical calculations to compare patterns and relationships; and			
SCIENCE.3.2.D	evaluate a design or object using criteria.	~~3.2.E~~	~~demonstrate that repeated investigations may increase the reliability of results; and~~	
SCIENCE.3.3	Scientific and engineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:			
SCIENCE.3.3.A	develop explanations and propose solutions supported by data and models;	**3.2.D**	~~analyze and interpret patterns in~~ data ~~to construct reasonable~~ explanations ~~based on evidence from investigations;~~	Analyzing and interpreting data have been moved into 3.2.B.
SCIENCE.3.3.B	communicate explanations and solutions individually and collaboratively in a variety of settings and formats; and	**3.2.F**	communicate ~~valid conclusions in both written and verbal forms~~; and	Students are now being asked to communicate not only as scientists but also as engineers.
SCIENCE.3.3.C	listen actively to others' explanations to identify relevant evidence and engage respectfully in scientific discussion.	**3.3.A**	~~analyze, evaluate, and critique scientific~~ explanations ~~by using~~ evidence, ~~logical reasoning, and experimental and observational testing~~;	
SCIENCE.3.4	Scientific and engineering practices. The student knows the contributions of scientists and			

SCIENCE.3.5.C

SCIENCE.3.8.B

SCIENCE.3.12.D identify