Moon, Mars and Beyond- Grade 4
2020 Colorado Academic Standards &
Essential Skills and Science and Engineering Practices

Colorado Essential Skills and Science and Engineering Practices

1. Make observations to produce data to serve as the basis for evidence for an explanation of a phenomenon or test a design solution. (Planning and Carrying Out Investigations) (Personal: Personal responsibility).
2. Apply scientific ideas to solve design problems. (Constructing Explanations and Designing Solutions) (Entrepreneurial: Inquiry/Analysis).
3. Construct and argument with evidence, data, and/or a model. (Engaging in Argument from Evidence) (Personal: Initiative/Self-direction)
4. Identify the evidence that supports particular points in an explanation. (Constructing Explanations and Designing Solutions) (Entrepreneurial: Creativity and Innovation)
5. Resist distractions, maintain attention, and continue the task at hand through frustration or challenge. (Perseverance/Resilience)
6. Recognize that problems can be identified, and possible solutions can be generated. (Critical Thinking/Problem Solving)
7. Find information through the use of technologies. (Use Information and Communications Technologies)
8. Model positive behavior for others. (Leadership)

Mathematics
4.NBT.A. Number & Operations in Base Ten: Generalize place value understanding for multi-digit whole numbers.

4.NBT.B. Number & Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic.

4.OA.A. Operations & Algebraic Thinking: Use the four operations with whole numbers to solve problems.

4.OA.B. Operations & Algebraic Thinking: Gain familiarity with factors and multiples.

4.MD.B. Measurement & Data: Represent and interpret data.
Reading Writing and Communicating

1. Pose thoughtful questions after actively listening to others.

2. Create a plan to effectively present information both informally and formally.