



---

# 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.