Scientific and Engineering Practices

- 1. Asking questions and designing problems
- 2. Developing and using models
- 3. Planning and carrying out investigations
- 4. Analyzing and interpreting data
- 5. Using mathematics and computational thinking
- 6. Constructing explanations and designing solutions
- 7. Engaging in argument from evidence
- 8. Obtaining, evaluating, and communicating information

Crosscutting Concepts

- 1. Patterns
- 2. Cause and Effect: Mechanism and Explanation
- 3. Scale, Proportion, and Quantity
- 4. Systems and System Models
- 5. Energy and Matter: Flows, Cycles and Conservation
- 6. Structure and Function
- 7. Stability and Change