Scientific and Engineering Practices

1. Asking questions and defining 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. System and system models
5. Energy and Matter: Flows, cycles, and conservation
6. Structure and function
7. Stability and change
Asking Questions & Defining Problems
Developing & Using Models
Planning & Carrying Out Investigations
Analyzing & Interpreting Data
Using Mathematics & Computational Thinking
Constructing Explanations & Designing Solutions
Engaging in Argument from Evidence
Obtaining, Evaluating & Communicating Information