

**Unit Organizer**  
**5<sup>th</sup> Grade Science**  
**SCIENCE SKILLS AND PROCESSES**

Colorado State Standards:

**Science Standard 1:** Students understand the processes of scientific investigation and design, conduct, communicate about, and evaluate such investigations.

**Science Standard 2.3:** Students understand that interactions can produce changes in a system, although the total quantities of matter and energy remain unchanged.

**Science Standard 5:** Students know and understand interrelationships among science, technology, and human activity and how they can affect the world.

Next Unit: Chemistry: Periodic Table and the Elements

Standards for Achievement and Performance:

Can you...

- Demonstrate proper lab safety and procedures?
- Describe what a scientist does?
- Identify the steps in the scientific method?
- Graph information using all of the elements of a graph?
- Produce a formal scientific experiment write-up using the scientific method?

Character Education:

*Responsibility* by taking care lab equipment and following safety procedures

*Self-Control* by displaying appropriate and on-task behavior during experiments

*Cooperation* through working together during labs and other group activities

Vocabulary

scientific method

data

hypothesis

Thinking Framework

*Knowledge:*

- Listing and describing the steps of the scientific method (built upon prior knowledge)
- Learn science safety rules
- New vocabulary

*Patterns:*

- Explain why safety rules are important
- Make hypotheses for science experiments

*Mapping/Mental Modeling:*

- Make an experiment plan given materials and an objective
- Make conclusions for hypotheses based on collected data