**UNIT 1:**

**SCIENCE SAFETY AND EVIDENCE-BASED THINKING**

**KEY UNDERSTANDING:**

* Science investigations are conducted in a safe manner with considerations for resource conservation. This increases the quality of the investigation, decreases risk to the investigator, and lessens negative impact on the environment.

•Hypotheses are tentative and testable statements, while theories are well-established and highly reliable explanations.

•Scientific theories are subject to change as new areas of science and new technologies are developed.

•Some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.

**QUESTIONS TO CONSIDER:**

1. Why should safety be a top priority when conducting investigations?

2. Why should we conserve resources when conducting investigations?

3. How can you determine the difference between a hypothesis and a

theory?

4. How are hypotheses developed?

5. Are scientific theories set-in-stone or are they subject to change?

6. What are examples of questions that are outside the realm of science?