**Essential Standards – Chemistry - 1st quarter**  
  
**8P1:  Understand the properties of matter and changes that occur when matter interacts in an open and closed container.**

**Essential Understandings:**

* **Matter can undergo changes when interactions occur.**
* **The results of the interactions (reaction) are different in closed containers versus open containers.**

**Essential Questions:**

* **What happens when matter interacts?**
* **Why can the results of a reaction be different in an open container versus a closed container?**

**8P1.3**:  Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.

**Essential Understandings**:

* Changes in the properties of matter can be physical or chemical.
* Changes in size, shape, and state of matter are considered physical changes.
* Changes in temperature, color, formation of a gas, or formation of a precipitate are considered chemical changes.

**Essential Questions**:

* What evidence would you look for to identify a physical or chemical change?

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