**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?**

**8P1.4**:  Explain how the idea of atoms and a balanced chemical equation support the law of conservation of mass.

**Essential Understandings**

* Matter cannot be created or destroyed during a reaction.
* The number of atoms does not change during a reaction
* Reactions must be studied in a closed system.

**Essential Questions**:

* How does the law of conservation of mass relate to atoms?

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