**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?**

**8P1.2**:  Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic table of elements.

**Essential Understanding**:

* The current model of the Periodic Table of elements is based on the physical properties of the elements and their reactivity.

**Essential Questions**:

* What is the relationship between the arrangement of the elements on the Periodic Table and their reactivity?
* How do the physical characteristics of elements factor into their arrangement on the Periodic Table?

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