## 8th Grade STAAR Science Tutorials

#### Reporting Category 1: Energy and Matter

Tutorial 01:	Elements & Compounds-TEK 6.5C (5): Differentiate between elements
	and compounds on the most basic level.

- Tutorial 02: Chemical Formulas-TEK 8.5D (R): Recognize that chemical formulas are used to identify substances and determine the number of atoms of each element in chemical formulas containing subscripts.
- Tutorial 03: <a href="Atomic Structure">Atomic Structure</a>-TEK 8.5A (R): Describe the structure of atoms, including the masses, electrical charges, and locations, of protons and neutrons in the nucleus and electrons in the electron cloud.
- Tutorial 04: Periodic Table-TEK 8.5C (R): Interpret the arrangement of the Periodic Table, including groups and periods, to explain how properties are used to classify elements.
- Tutorial 05: <u>Metal Classification</u>-TEK 6.6A (S): Compare metals, nonmetals, and metalloids using physical properties such as luster, conductivity, or malleability.
- Tutorial 06: Atomic Structure & Chemical Properties-TEK 8.5B (R): Identify that protons determine an element's identity and valence electrons determine its chemical properties, including reactivity.
- Tutorial 07: <a href="Physical & Chemical Changes">Physical & Chemical Changes</a>-TEK 7.6B (S): Distinguish between physical and chemical changes in matter in the digestive system.
- Tutorial 08: Chemical Reactions-TEK 8.5E (R): Investigate how evidence of chemical reactions indicate that new substances with different properties are formed.
- Tutorial 09: <u>Balanced Equations</u>-TEK 8.5F (S): Recognize whether a chemical equation containing coefficients is balanced or not and how that relates to the law of conservation of mass.
- Tutorial 10: <u>Food Web Energy Flow</u>-TEK 7.5C (S): Diagram the flow of energy through living systems, including food chains, food webs, and energy pyramids.

# **Staar Science Tutorials**

**Léo Pomar** 



## Staar Science Tutorials Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Staar Science Tutorials**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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