Chemistry Unit

What Is Matter and Why Does it Matter?

Targets:

1. I will identify and apply the steps of the scientific method.
2. I will create an object that will neither sink nor float using the properties of that object.
3. I will list and describe the four properties of matter.
4. I will classify the three subatomic particles by their properties and charges.
5. I will calculate the density, volume and mass of different objects and substances.
6. I will interpret the chemical symbols on the periodic table.
7. Calculate the atomic mass of an element and its isotopes.
8. Compare and contrast Ionic and Covalent Bonds.
9. Evaluate the properties of an element by its location on the periodic table of elements.
10. Draw and label chemical symbols and atomic structures.
11. I will identify the families of the elements on the periodic table of elements.
12. I will identify the four states of matter and interpret the method at which they move from state to state.
13. I will differentiate between a substance’s chemical and physical properties.
14. I will investigate an environmental problem in society and design a presentation to my peers that is both informative and engaging.
15. I will identify the Earth as a closed system and investigate how matter cycles throughout the Earth as the Biogeochemical Cycles.