**Assignment**

Your goal is to explain to a younger audience the concepts you have learned this unit in some sort of a creative manner. Think back to the Build-An-Atom Workshop concept and how that tied many of the concepts together.

**Worksheet - Work through your assessment**

**Idea**

*Here is where you put a description of your idea.*

**Fundamentals**

Fill out the following table with the vocabulary words for this assignment and then explain how they tie back to the assignment.

|  |  |  |
| --- | --- | --- |
| **Vocabulary Word** | **Definition** | **Relate the vocabulary word back to your idea.** |
| **Neutron** |  |  |
| **Proton** |  |  |
| **Electron** |  |  |
| **Atomic Number** |  |  |
| **Atomic Mass** |  |  |
| **Valence Electrons** |  |  |
| **Isotope** |  |  |
| **Ion** |  |  |

**Concepts**

|  |  |
| --- | --- |
| **Concept** | **How is this shown in your idea/project.** |
| **How you calculate protons** |  |
| **How you calculate neutrons** |  |
| **How you calculate electrons** |  |
| **Identify isotopes** |  |
| **Identify ions** |  |
| **A trend in the PT:** |  |
| **A trend in the PT:** |  |
| **A trend in the PT:** |  |
| **A trend in the PT:** |  |
| **Property of Elements** |  |
| **Property of Elements** |  |
| **Property of Elements** |  |
| **Property of Elements** |  |

**Project**

*In the space below, enlarge as needed, include your final project. If it is written just type it here, if it is a video, upload it here, if you can't figure out how to get it here, ask. This should be like an advertisement for your store/product line, or a blurb that would appear on a front or back cover of a book, or what would be in a window display, or an instructional video, or …*

**Proficiency Scale**

|  |  |  |
| --- | --- | --- |
|  | **Periodic Table** | **Forces in Particles** |
| **4** | Students can use the periodic table to find protons, neutrons, and electrons in an atom and describe how these properties are found.    Students can describe how an atom can become an isotope and an  ion.    Students can describe at least 4 trends in the periodic table | Student can define and describe at least 4 physical properties of elements on the periodic table. |
| **3** | Students can use the periodic table to find protons, neutrons, and electrons in an atom and describe how these properties are found.    Students can describe at least 3 trends in the periodic table. | Student can define and describe at least 3 physical properties of elements on the periodic table. |
| **2** | Student can define proton, neutron, and electron in an atom and explain where they are located in the atom.    Student can describe at least 2 trends in the periodic table. | Student can define and describe at least 2 physical properties of elements on the periodic table. |
| **1** | Student does not demonstrate an understanding of an atom.    Student can identify 1 or less trends in the periodic table. | Student cannot define any physical properties from the periodic table. |