**The Periodic Table** (Between lesson 2 and 3)

**Choice 1:**  Create a poster of your group/family. (Get approved family from teacher-choices are family 1, family 2, family 13, family 14, family 15, family 16, family 17, or family 18)

            Must show:

1. Your elements square from the periodic table with all the information.
2. Information of your element (properties, discovery, uses, etc.)
3. Correctly use letter and background colors.

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| **Periodic Table** |
|  | **1-Developing** | **2-Accomplished** | **3-Exemplary** |
| **Knowledge Target:**  Understand how elements on the periodic chart are arranged by properties. | Correct colors for element are used. Lists and describes how it was discovered 1 property, and 1 use. | Correct colors for element are used. Lists and describes how it was discovered 2 properties, and 2 uses. | Correct colors for element are used. Lists and describes how it was discovered 3 properties, and 3 uses. |

**Choice 2:**  Research and write a [biography on a famous chemist](http://hoopmanscience.pbworks.com/w/page/24138525/Biography%3A%20%20Chemistry).

Must Show:

1. A life history of your chemist.
2. What discoveries and research they are famous for.
3. How did they impact current science?

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| **Famous Chemist** |
|  | **1-Developing** | **2-Accomplished** | **3-Exemplary** |
| **Knowledge Target:**  Understand how elements on the periodic chart are arranged by properties. | Details a brief life history. Lists discoveries. Mentions or loosely understands the impact on our understanding of chemistry and the elements. | Details a brief life history. Describes discoveries. Understands the impact on our understanding of chemistry and the elements. | Details a brief life history. Clearly describes with understanding the chemists important discoveries. Clearly understands and teaches the chemists impact on our understanding of chemistry and the elements. |

Research the [**compounds**](http://hoopmanscience.pbworks.com/Jake-and-Logan-are-awesome%21) created by your group/family. (Lesson 1)

            Must show:

1. Important compounds formed by your element and other elements and the uses of those compounds.
2. Compare and contrasts properties of the element and its compounds.
3. What role your element plays in those compounds.
4. Type of bonding your element does most often and why.
5. Your atom is your unique choice.

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| **Compounds** |
|  | **1-Developing** | **2-Accomplished** | **3-Exemplary** |
| **Reasoning Target:**  Compare and contrast the chemical and physical properties of compounds to the properties of their components. | Lists properties of the element and its compounds. Mentions bonds that form. | Compare and contrast properties of the element and its compounds in a list.  Describes bonds that form. | Compare and contrast properties of the element and its compounds and explain why properties are different. Explains how bonds form. |