**Year 8 Chemistry Choice Board**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Row** | **Periodic Table**  Choose 1 | **Atomic Model & Counting Atoms**  Choose 1 | **Physical & Chemical Changes**  Choose 1 | **Pure Substances & Mixtures**  Choose 1 | **States of Matter**  Choose 1 |
| 1  Choose 1 | Design a study guide on the periodic table. You must have at least 15 questions and include an answer key on a separate sheet of paper. | Write a letter to a friend teaching them how to draw Bohr’s Model. | Create a word cloud of ten physical and ten chemical properties and changes.  On a separate page, give your definition/understanding of each word. | Write a poem, rap, or song about pure substances and mixtures. You must include the difference between each and examples. | Write an explanation of the four states of matter. Describe the particle motion for each state. |
| 2  Choose 2 | Make a comparison chart for metals, nonmetals, and metalloids. Include examples, the total number and characteristics of each type. | Draw Bohr’s Model for following atoms: Hydrogen, Helium, Potassium,& Neon. Include the number of protons, neutrons, and electrons for each. Design a key for each particle. | Illustrate five examples of physical and five examples of chemical changes. Include a description for each. | Plan a meal that has 3 pure substances and 3 mixtures. Include what type of mixture each item is. | Choose one substance and draw how it transitions between the three states of matter. You must include a description of each illustration. |
| 3  Choose 3 | Write a news report explaining how the periodic table is organized. Take on the role of reporter and inform your viewers. You may create a video or produce written dialogue. | Complete a chemical formula table for five compounds. Write the formula on one side and the “ingredients” on the other side. Write detailed instructions on how to count atoms. Include at least three examples that are labeled. | Make a video showing five real-life examples of physical and chemical changes. Make a Venn diagram comparing and contrasting physical and chemical changes. | Draw a Venn diagram comparing and contrasting pure substances and mixtures.  Compose ten tweets to help others identify differences between pure substances and mixtures. *(120 characters or less for each)* | Draw the water cycle. Label and describe how it demonstrates at least four phase changes. |

Rules:

You must complete one from row one, two from row two and three from row three. You must chose at least one from every column.