Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_ / 5

***What Combusts (Reacts with Oxygen)?***

**Demo Data Collection**

|  |  |  |  |
| --- | --- | --- | --- |
| **Substance** | **Chemical Formula** | **Description** | **Combust?** |
| Water | H2O | *Clear colorless liquid* |  |
| Wood | CnH2nOn  a carbohydrate |  |  |
| Sand | SiO2 |  |  |
| Ethanol | CH3CH2OH |  |  |
| Table Salt | NaCl |  |  |
| Copper | Cu |  |  |
| Magnesium | Mg |  |  |
| Hexane | C6H14 |  |  |
| Calcium carbonate | CaCO3 |  |  |

**Demo Questions**

1. Make a list of patterns you notice in the substances that do or do not combust. (at least 3 patterns)
2. Do you expect octane, CH3CH2CH2CH2CH2CH2CH2CH3 (*l*), to combust? Why?
3. Do you expect the metal lithium, Li (*s*), to combust? Why?