**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Candy Compounds**

Complete your key below based on the number and colors of gumdrops in your bag. Color each gumdrop in the key below to match the gumdrops in your bag.

 = Hydrogen  = Chlorine  = Oxygen

 = Sodium  = Carbon  = Calcium

**DIRECTIONS:** For each compound:

1. List the names of the elements and the number of each element.
2. State if each element is a metal, nonmetal, or metalloid.
3. State if the compounds are ionic or covalent.
4. Make the gumdrop model with the gumdrops and toothpicks.
5. Draw and color the gumdrop model.

| **Compound** | **Information**  List the names of the elements and number of each. | **Type of Element(s)**  State if the element(s) are metals, nonmetals, or metalloids. | **Type of Bond**  State if the bond is Ionic or Covalent. | **Gumdrop Model**  Make the gumdrop compound. Then draw and color diagrams below according to your key. |
| --- | --- | --- | --- | --- |
| **H2**  Hydrogen Gas |  |  |  |  |
| **NaCl**  Table Salt |  |  |  |  |
| **H2O**  Water |  |  |  |  |
| **Na2O**  Sodium Oxide  Use: Ceramics |  |  |  |  |
| **CaCl2**  Calcium Chloride  Use: De-icer |  |  |  |  |
| **CH4**  Methane  (Cow Farts) |  |  |  |  |
| **CO2**  Carbon Dioxide |  |  |  |  |
| **CHCl3**  Chloroform |  |  |  |  |
| **CaCO3**  Calcium Carbonate  Use: Marble |  |  |  |  |
| **NaClO**  Sodium Hypochlorite/  Bleach |  |  |  |  |
| **NaHCO3**  Sodium Bicarbonate  Use: Baking soda |  |  |  |  |