***LAB: Candy Compounds*** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C:\Users\Owner\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\BPCAD266\MC900237945[1].wmfCopy the key for each color of marshmallow from the board. Follow the directions to complete this worksheet.

|  |  |
| --- | --- |
| Color of Marshmallow: | Element Represented: |
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|  |  |
|  |  |
|  |  |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Information**  List how many of each atom you need | **Type of Bond?**  Ionic or Covalent? | **Marshmallow Model**  Make the model using toothpicks for bonds | **Lewis Dot Structure**  Show the lewis dot structures and bonds |
| H2 |  |  |  |
| NaCl |  |  |  |
| H2O |  |  |  |
| Na2O |  |  |  |
| CaCl2 |  |  |  |
| CH4 |  |  |  |
| CO2 |  |  |  |
| CHCl3 |  |  |  |

**Questions:**

1. What type of bond occurs between a metal and a nonmetal?
2. What type of bond occurs between two nonmetals?
3. For your ionic compounds, the first element is always found on what side of the periodic table?
4. How many electrons are represented by one toothpick?
5. In CO2, how many electrons are shared total in bonds?