

Name _____ Hour _____

Question: How can you create a model to represent a molecule?

Materials:

- colored pencils
- 13 various colored gum drops
- toothpicks

Your job in this lab is to build 6 different molecules using gum drops as atoms and toothpicks as bonds. Choose your molecules from the following list:

- Sodium Chloride (salt): NaCl
- Water: H_2O
- Hydrogen Peroxide: H_2O_2
- Carbon Dioxide: CO_2
- Ammonia: NH_3
- Chlorine: Cl_2
- Calcium Carbonate: CaCO_3
- Rust: Fe_2O_3
- Potassium Chloride: KCl
- Ozone: O_3
- Nitrogen: N_2
- Cupric Sulfate: CuSO_4

You may use a maximum of 13 gum drops, so you must plan wisely! Be careful as you choose the colors and numbers of each one so that your molecules turn out right! This means you will need to disassemble some molecules before you build other ones. Once you have assigned an element to a color of gumdrop, it cannot change and must remain that element throughout the entire lab.

As you create each molecule, draw a picture of it and include the following 3 items:

- name and chemical formula
- color the atoms (use colored pencils)
- key describing the name, color, and number of each atom present in the molecule.

Molecule #1

Molecule #2

Molecule #3

Molecule #4

Molecule #5

Molecule #6