



Science Summary Sheet

This area is for a drawing of the science topic you are studying.

Handwriting practice area consisting of multiple sets of horizontal lines. Each set includes a solid top line, a dashed midline, and a solid bottom line.



Science Experiment Sheet

This area is for a drawing of the experiment.

What we used:

What we did:

What happened?

What we learned:

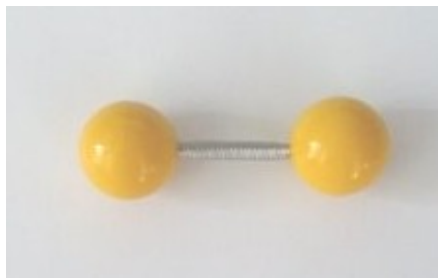
Molecule Building Activity

- 1) Look at paper included in your Student Molecular Model Set. Determine which colors represent which elements.
- 2) Look at the atom models and note the number of holes in each. When you make a model, you MUST fill up each hole with a bond. For example, black represents carbon and each carbon sphere has four holes. To make correct structures, you MUST fill all four.
- 3) Make the following molecules: H_2 , O_2 and N_2 . These three demonstrate the use of single, double and triple bonds.
- 4) Now, make H_2O and NH_3 . Both of these molecules use only single bonds.
- 5) Now, make CO_2 and HCN . The first uses two double bonds and the second uses one triple bond and one single bond.
- 6) Now, make methane: CH_4 and C_2H_4 . Both of these molecules use single bonds.
- 7) When you are finished making your models check them with the pictures on the next page.

Note: if you are using gum drops and toothpicks instead of the molecular kit here is a list of corresponding colors:

Red: represents Oxygen atoms
Yellow: represents Hydrogen atoms
Blue: represents Nitrogen atoms
Black: represents Carbon atoms

Molecule Building Activity Answers



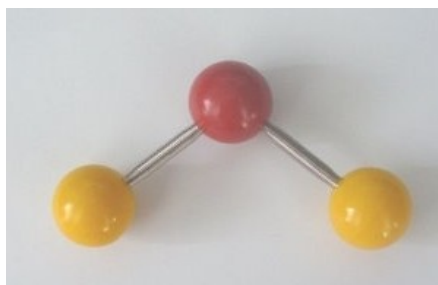
H_2



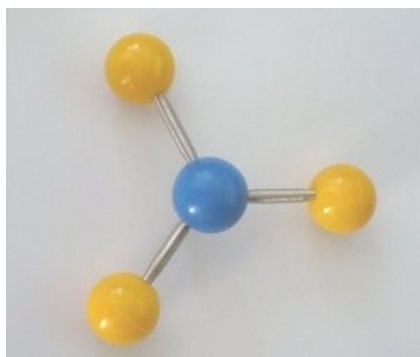
O_2



N_2



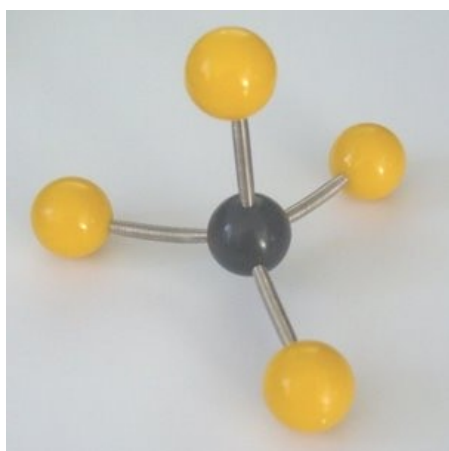
H_2O



NH_3



HCN



CH_4