Step 1: Write both your names at the top of the paper.

Step 2: Gather your materials. You need 5 marbles, 4 yellow magnets, 4 green magnets, 2 red magnets, 2 black, and 3 blue magnets. You will also need colored pencils yellow, green, red, black, and blue.

**You will now build and draw different compounds and mixtures with these magnets. See the key below.**

**Hydrogen (H) – YELLOW, Oxygen (O) – BLUE, Carbon(C) BLACK, Nitrogen (N) – GREEN, REDS are wild**

Step 3: Read the substance and its formula in the box below. First, put the magnets and marbles together in the correct number and color based on the formula.

Step 4: Get your teacher’s initials in the box.

Step 5: Now draw the molecule using the magnets as an example.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Activity Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

823: Differentiate between a mixture and a compound.

Compounds

4. Hydrogen Peroxide – H2O2

1. Water – H2O

5. Simple Sugar – CH2O

2. Carbon dioxide – CO2

3. Ammonia – NH3

6. Carbonic Acid – H2CO3

**Build** then **draw** the following mixture.

H20 mixed with CO2

 Mixed with

Water mixed with Carbon Dioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mixtures

**Build** then **draw** the following mixture.

H20 mixed with NH2

 Mixed with

Water mixed with Ammonia

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In the last two boxes, **create your own formula** based on the number and type of magnets you have. Once you have created a formula, **build the molecule** and get **teacher’s signature**. Finally, draw your molecule based on your magnet model.

Formula \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Formula \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_