Honors Chem Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dr. Wexler

Building a Cartesian Diver

Date assigned:

The Cartesian Diver is a mystery toy that each group of students will construct from the following materials:

-         Piece of balloon

-         Rubber band

-         Large test tube

-         Small test tube

-         Water

In order for the Diver to work, you must build a **completely closed system**, meaning that nothing can enter or leave.

I have built two different working models of the Diver for you to examine.

Once you have a working diver, I want you to examine it carefully as you operate it to help you construct a hypothesis to explain its action. Hint: We are studying the concept of density.

Observations:

 Describe and diagram the parts of your Diver:

Hypothesis:
 Provide a scientific explanation for why your Diver works the way it does: