How Does a Syringe Work?

Name _____ Date _____

Purpose: To experiment with the relationship between air pressure and volume as defined by Boyle's Law.

Materials

> One syringe

Directions

1. Place your thumb over the tip of the syringe. Envision what the air looks like inside the syringe and draw a model below:

2. Holding your finger over the tip, push the plunger down halfway. Draw what the air in the syringe looks like now.

3. Write a few sentences about what you think is happening in this situation in terms of air pressure.

4. Does your model above show what happens in terms of a relational causal model? If not, add to it, revise it, or draw a new model below.

5. Choose an instance from everyday life that illustrates Boyle's Law. Then, using relational causality, draw a model of what is going on in the instance you chose. Label your model and write a brief explanation of what happens below it.

Model:

Brief explanation: