

# Pressure and Volume of a Gas

1. Record your data in the table.

Number of Books	Mass of Books (kg)	Units of Air Pressure	Volume of Air (cc)
0			
1			
2			
3			
4			

2. Graph your data from the table. Be sure to label both axes.

Based on your graph, what can you conclude about the relationship between the pressure of the air in the syringe and the volume that the air occupies?

---

---

3. Draw a diagram of how the air molecules might look in a syringe whose plunger is fully extended.
4. Draw a diagram of how the air molecules in that same syringe might look if the plunger were pushed down halfway.