

Pac-Man Validation Report



By: Ryan Miller
Alex Chaidez
Wesley True
Hector Gutierrez
Engineering P.2
Mr. Kliewer

This is an experiment that uses a one-way check valve to measure pressure vs. altitude. The data will be gathered when the balloon has been sent in the air and with all of the equipment inside the gondola.

Purpose

The purpose of our experiment is to check the pressure vs. altitude. We will get this data by letting air out of the jar and measuring the pressure inside. The valve that we are using should not let air in or out. We will know if it works correctly by looking at it and observing it carefully. This experiment will also test if the other equipment is reliable like the computer, labor and everything else. If any of the pieces of equipment don't do their part in this experiment the entire experiment will be ruined.

Method

Step 1: Make a one-way valve on the jar using plastic.

Step 2: Attach barometer to jar.

Step 3: Connect barometer to the Labpro.

Step 4: Connect Labpro to computer.

Step 5: Take out ten ML out at a time.

Step 6: Repeat step 5 for 2 minutes.

Step 7: Transfer data from Labpro to the LoggerPro.

Data

Our data is pretty accurate from our testing. Our data came out repetitive almost every time. As we pull air from the jar the pressure inside the jar decreases. If we disable the valve the pressure inside the jar will return to normal room standards.

Conclusion

After all we have realized that everything we are going to use has to work correctly to get the right data for our project. Since our data was accurate we were able to conclude that as altitude increases, pressure also increases.