**Name:**

**Date:**

**School:**

**Facilitator:**

7.03 Atmosphere Lab

**Directions: As you complete the lab, insert your screenshots of your graphs.**

Graph 1: Altitude vs. Temperature
*Insert screenshot here*

Graph 2: Altitude vs. Air Pressure

*Insert screenshot here*

**Complete the table below using the data from your graphs.**

| **Trial #** | **Altitude (in km)** | **Temperature (in oC)** | **Air Pressure (in millibars)** | **Layer of Atmosphere** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Directions: Using the information in the tables and graphs on the simulation, answer the questions below using complete sentences.**

1. At what altitude from the ground do you see the temperature of the air begin to start increasing as the altitude increases? What layer of the atmosphere are you entering when this begins to occur?

1. At what altitude is the air pressure the highest? What atmospheric layer is the balloon in when this occurs?

1. At what altitude does the air pressure drop to near zero? What atmospheric layer is the balloon in when this occurs?

1. Beginning with the troposphere, describe what happens in each layer to the temperature as the altitude increases. Refer to Chart # 2

1. Based on what you learned in the lab from the charts, line graphs, and questions, explain why the line graphs for each of the charts are not straight lines.