

Name: _____

Date: _____

Mass and Temperature of Air

- Objective:** 1. As pressure increases, what happens to the mass and temperature of air????
2. Since we can not see air, lets make some observations.

Materials: Pressure Pumper, Thermometer, Scale

Procedure: Attach a pressure pumper to a two liter bottle. Mass the container and record starting temperature. Pump 30 times. Record mass and temperature each 30 pumps. Repeat and complete the chart below.

Hypothesis: _____

Pumps	Mass (g)	Temperature °F
0		
30		
60		
90		
120		
150		
180		
210		
Release		

1. Identify the independent _____ and dependent _____, _____ variables.
2. Graph these variables on a double y-axis graph, (two colors needed).
3. What is the rate of change (°/g) ? [until the release] _____
4. How does this experiment relate to the Weather Unit? _____

5. Write a conclusion (don't forget to include answer to scientific question, why, correctness of hypothesis and any source of error). Your conclusion must be at least 5 complete sentences and on the back of this sheet.