**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_ Seat # \_\_\_\_\_\_\_\_\_ Score \_\_\_\_\_\_\_\_**

**Rubric for Gas Lab (Pressure/ Volume & Pressure/ Amount of particle (puffs)) and Icy Hot Lab**

*Write everything in your lab book.*

1. **Data table for Pressure – Volume is complete including the constant column. 10 points\_\_\_\_\_\_\_\_**
2. **Explained how you calculated the constants (P\*V or P/V ?) 5 points\_\_\_\_\_\_\_\_**
3. **You wrote the formula of Boyle’s law ( P = ????). 5 points\_\_\_\_\_\_\_\_**
4. **Stated Boyle’s law in words. 5 points\_\_\_\_\_\_\_\_**
5. **The Pressure – Volume graph is copied into your lab book and includes labeled and accurately scaled (numbered) axes. 10 points \_\_\_\_\_\_\_\_\_\_\_\_**
6. **The equation of the curve is written on the graph. The format of this equation is:**

**y = AxB**

**you will find the values of A & B on the graph’s trend line. B will be a negative exponent. \_5 points `**

1. **Data table for Pressure – amount (puffs) is complete including the constant column. 10 points\_\_\_\_\_\_\_\_**
2. **Explained how you calculated the constants (P\*n or P/n ?) 5 points\_\_\_\_\_\_\_\_**
3. **You wrote a mathematical expression for p & n that includes k (the constant) ( P = ????). 5 points\_\_\_\_\_\_\_\_**
4. **You explained the above formula in words (Pressure equals …..) 5 points\_\_\_\_\_\_\_\_**
5. **The Pressure – amount (puffs) graph is copied into your lab book and includes labeled and accurately scaled (numbered) axes. 10 points \_\_\_\_\_\_\_\_\_\_\_\_**
6. **The equation of the curve is written on the graph. The format of this equation is:**

**y = mx + b**

**you will find the values of m & b on the graph’s trend line. \_5 points `**

1. **You sketched the “Icy- Hot” graph in your lab book . Your graph shows 0° C and 100° C 10 points `**
2. **You completed the icy hot data table. 10 points `**