

### Chem 1: Gay-Lussac's Law Worksheet

1. Write the equation for Gay Lussac's Law. Define the symbols used.
2. What two gas law variables are constant in Gay-Lussac's Law?
3. A rigid container has an initial pressure of 1.50 atm at 21°C. What will the pressure be if the temperature is increased to 121°C?
4. The pressure inside a container is 770 mmHg at a temperature of 57°C. What would the pressure be at 75°C?
5. A rigid container is at a temperature of 112°C. When heated to 224°C, the pressure was 288 kPa. What was the initial pressure?
6. Use Gay-Lussac's Law to explain why you should never throw a pressurized aerosol container into a fire. A fire's temperature is approximately 400°C.