

8th Grade Physical Science

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- Gas Pressure
 - a force exerted on a given area by the gas
 - if container does not allow gas particles to move freely, pressure in the container increases
 - if container allows the gas particles to move about freely, pressure in the container is less
 - temperature will affect gas pressure:
 - raising temperature (warmer) causes the particles to move faster → increase in pressure and in volume
 - lowering the temperature (colder) causes the particles to move slower closing space between the particles → decreases pressure and decreases volume
- Gas Laws
 - Boyle's Law
 - for a fixed amount of gas at a constant temperature (no change in amount of gas or temperature of gas), the volume of the gas increases as the pressure decreases AND as the pressure increases the volume decreases
 - Example of Boyle's Law on a graph

