

Name: _____

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NOTES

Aim: I can explain the behavior of gases.

Laws and Principles

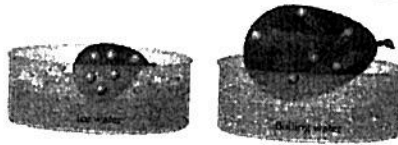
Boyle's Law- If you decrease the volume of a container of gas, the pressure of the gas will increase, provided the temperature does not change.

Example: squeezing a balloon.



Charles Law- For a gas at a constant pressure, if you increase the temperature, then the volume will increase.

Example: Hot air balloon, car tires



Charles Law is similar to what other concept which we have discussed this chapter?

Thermal Expansion

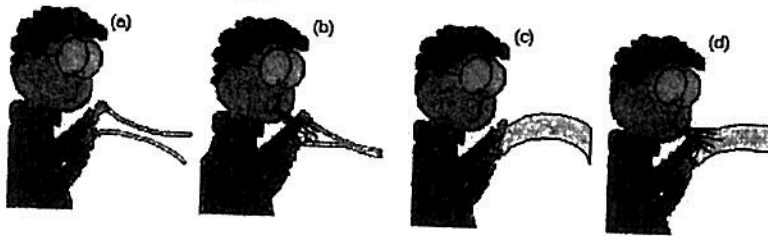
Pascal's Principle- States that pressure exerted on a fluid is transmitted equally throughout the fluid.

Example: Squeezing a tube of toothpaste, The Blob



Bernoulli's Principle- As the velocity of a fluid increases, the pressure exerted by the fluid decreases.

Example: airplane wing, Frisbee, fan blade, treading water



Venturi Effect- If a moving fluid is forced to travel in a narrower path, the velocity of

fluid will increase. Example: power washer, sand blaster, hose nozzle

