

6.12 Kinetic-Molecular Theory of Gases (Video)

This project was preformed to supply **Libretext Authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

The kinetic-molecular theory of gases is related to the idea that gas molecules have a certain amount of kinetic energy. The kinetic energy of a gas is related to its pressure because pressure is created from the collision of the gas on the walls of a container. There is a relationship between the velocity of a gas and its molar mass shown by the equation $U_{rms} = \sqrt{(3RT/M)}$. Where U_{rms} is the root-mean-square speed of the gas in Meters/second. T is the temperature of the gas in Kelvin. M is the molar mass of the gas in kg/mol. This video contains a sample problem, which discusses these concepts.

Link to Video

Kinetic-Molecular Theory of Gases: <https://youtu.be/9f83XAYfXAg>



Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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