

Click on the Width icon to open the measuring tool. Adjust the temperature to 300 K. In the "Hold Constant" box, select Pressure (P) to keep the pressure constant.

6) What is the current width of the container and what units are used?

10.0 nm

Complete the chart below by changing the volume (width) and recording the temperature.



Volume Size	Width (nm)	Temperature (K)
Extra Large	14.0	~ 420
Large	12.0	~ 360
Medium	10.0	~ 300
Small	8.0	~ 240
Extra Small	6.0	~ 180



7) Using the data in the chart, describe the relationship between temperature and volume:

As the volume decreases, the temperature decreases.  
As the volume increases, the temperature increases.

- A direct relationship describes a relationship where two variables rise and fall together.
- An inverse relationship describes a relationship where two variables change in opposite directions. If one variable rises, the other variable falls.

8) What type of relationship is present in Boyle's Law?

Inverse Relationship

9) What type of relationship is present in Charles' Law?

Direct Relationship

# Phet Gas Law Simulation Lab Answers

**Marcia L. Tate**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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