

Name: _____

Gas Laws Webquest

- 1) Click here to answer. <http://environmentalchemistry.com/yogi/chemistry/dictionary/#G>
What is a **gas**?

- 2) Click here to answer. <http://www.chm.davidson.edu/vce/kineticmoleculartheory/BasicConcepts.html>
What does the **kinetic molecular theory** explain? (at least 3 things)
- .
- .
- .

- 3) Click here to answer. <http://legacyweb.chemistry.ohio-state.edu/betha/realGasLaw/fr1.3.html>
What are the 4 physical (measurable) characteristics of a gas?

- 4) Click here to answer. <http://www.enchantedlearning.com/chemistry/glossary/Kelvin.shtml>
The Kelvin scale is based on the concept of absolute zero. What is absolute zero, and what happens to particles at absolute zero?

- 5) Click here to answer. <http://www.enchantedlearning.com/chemistry/glossary/Kelvin.shtml>
Read about temperature conversions and fill in the following chart. Comparison of Temperature Scales

	Fahrenheit	Celsius	Kelvin
Water boils			
Body temperature			
Water freezes			
Absolute zero			

- 6) Click here to answer. <http://www.chemicalelements.com/>
What are the boiling points of Oxygen, Nitrogen and Fluorine gas?

- 7) Click here to answer. <http://jchemed.chem.wisc.edu/JCESoft/CCA/CCA2/MAIN/BAROMET/CD2R1.HTM>
Who invented the mercury barometer and what is it used to measure?

8) Click here to answer. <http://www.explainthatstuff.com/barometers.html>

What is air pressure? How do barometers measure air pressure?

What are the main differences between a Torricellian barometer and an Aneroid barometer? Why are Aneroid barometers more often used?

9) Click here to answer 10-12. <http://resources.schoolscience.co.uk/BAMA/11-14/aerosch4pg1.html>

What causes the pressure that a gas exerts on the walls of its container?

10) Why do we not feel the weight of the atmosphere?

Click here to answer. <http://library.tedankara.k12.tr/chemistry/vol1/physics/trans64.htm>

11) What happens to the pressure of a confined gas at a constant temperature when the volume is reduced by 1/2?

Click here to answer. <http://library.tedankara.k12.tr/chemistry/vol1/physics/trans62.htm>

12) What happens to the volume of a gas at constant temperature when the pressure is increased?

Click here to answer. <http://www.chemtutor.com/gases.htm>

13) Write Boyle's law using both words and a formula.

14) Write Charles's law using both words and a formula.

15) Write Avogadro's Law using both words and a formula.

16) Write the Combined Gas using both words and a formula.