



Density: Got Gas?

Mrs. Aldridge's
9th Grade Science Class
Rhodes Jr. High

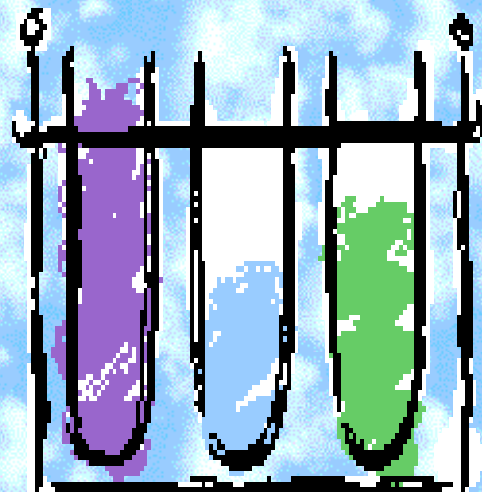


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Welcome to our website!
Come browse around to
learn everything you ever
wanted to know about
density. This site was
designed to be a reference
for our unit called, "Got
Gas?" In this unit we did
labs like building hot air
balloons to layering liquids.
All the links you will see
were created by the brilliant
students at Rhodes Jr. High.





Mrs. Aldridge is Cool!



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What a Gas!



Here we are filling our balloon with air. What a bunch of hot air!

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We observed from the balloons in our class compared to the balloons from a class earlier in the morning that the other class had longer flight times. We concluded that the lower the outside temperature the better.

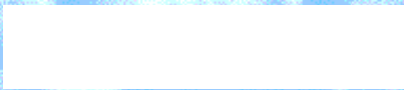
This page is brought to you by:
Joe Schmoo
Al B. Sure
Judy Jetson
In Mrs. Aldridge's 4th Hour

We did a lab where we had to build a hot air balloon out of tissue paper. This lab helped us understand density better. The reason hot air balloons will rise in the air is due to density. When air molecules are heated up they spread out which increases their volume.

Therefore their density decreases. Because the hot air has a lower density it is able to rise above the cooler outside air. The balloon will continue to rise until the temperature or density is the same as the outside air.



Our balloon was first launched when the internal air temperature was 73 degrees Celsius and the outside air temperature was 30 degrees. Our balloons flight time was 2 minutes and 4 seconds. The next time we launched our balloon the internal temperature was 80 degrees and the outside air temperature was 30 degrees. Our balloons flight time was 2 minutes and 44 seconds. Awesome!

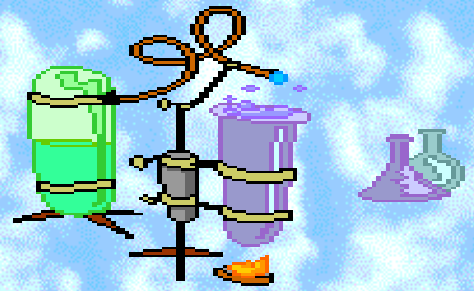


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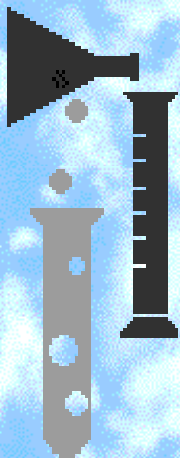


We built hot air balloons to learn about density!

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Browse through this list of density topics:

- [What a Gas!](#)
- How to make a hot air balloon
- Hot air balloon lab results
- How to measure liquid density
- How to measure solid density
- Layered liquids lab
- What is an operational definition?
- Hot, hot, hot Lab
- Common objects density
- Measuring density of odd- shaped objects
- Uses for density
- Picture Review page

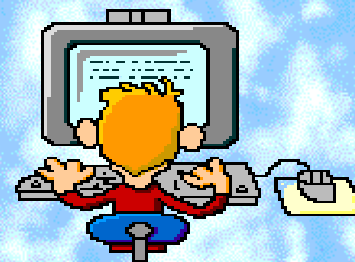


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We found the following web sites to be very useful in our density unit.



http://www.mathmol.com/modules/water/density_intro.html
This site has a great density lab that we did together as a class.



http://www.explorescience.com/activities/Activity_page.cfm?ActivityID=29
This is a fun interactive lab where you calculate the density & then see if the various objects float or sink.



<http://www.omsi.edu/explore/physics/air/>
Air Travelers: A educational web site devoted to teaching density through hot air balloons.



http://ippex.ppp1.gov/ippex/module_3/density.html
This is an interactive tutorial teaching density.



<http://mc2.cchem.berkeley.edu/Java/molecules/index.html>
This is simulation of what happens to gas molecules at different temperatures.



<http://www.crpc.rice.edu/CRPC/GT/louviere/chem.html>
This is a link to another great web link page.



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