

Go to the PHET site by searching for "phet Gases Intro". Run the HTML simulator by pressing the Play button. Answer the following questions. Here is the link: [https://phet.colorado.edu/en/simulations/gases-intro?sim\\_gases-intro\\_en.html](https://phet.colorado.edu/en/simulations/gases-intro?sim_gases-intro_en.html)

#### Directions for INTRO-

1. After opening the website above, click on the **INTRO** box.
2. To add a gas to the container, move the air pump handle up and down, three or four times.
  - a. After each of the following changes, describe what happens to the air pressure reading, that you see in the gauge in the upper right corner of the container.
    - i. Move the toggle switch on the "Heat/Cool" bucket below the container UP, indicating an increase in temperature.  
As the temp increases, the molecules should move more quickly, colliding more often and **INCREASING THE PRESSURE**
    - ii. Predict what would happen if you had cooled the temp.  
As the temp decreases, the molecules should move more slowly, colliding less often and **DECREASING THE PRESSURE**
    - iii. Now move the handle at the top of the container to the left, briefly, and close again. You have allowed some gas to escape.  
As the # of gas particles decreases, the molecules should collide less often and **DECREASE THE PRESSURE**
    - iv. Now move the handle, to the left of the container, towards the right. After you describe the change in the pressure reading, what did you just do to the volume of the container?  
As the volume decreases, the molecules should collide more often and **INCREASE THE PRESSURE**
    - v. Predict what would happen to the pressure if you increase the volume of the container. Try it.  
As the volume increases, the molecules should collide less often and **DECREASE THE PRESSURE**
3. Now move your cursor to the bottom of the page and click on the **LAWS** box. Once open, move the air pump handle up and down again to add gas to your container.
4. To simulate one of the gas laws, in the box off to the right that says **HOLD CONSTANT**, click on only **temperature**.
  - a. What is the pressure in your container? **[answers may vary]**
  - b. At this setting, with the temp constant, and without changing the number of gas molecules in the container, what two variables could be changed?  
**PRESSURE & VOLUME**
  - c. What gas law focuses on those two variables?  
**BOYLE'S LAW**
  - d. Make a change to one of these variables and identify the resulting impact on the other variable. **[answers may vary]**

# Answer Key To Phet Densitysolution Answer

**Thomas O'Brien**



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Neusa,2023-01-24 Working in an interdisciplinary manner is long pursued but a difficult goal of science and mathematics education The interdisciplinarity of science and mathematics can occur when connections between those disciplines are identified and developed These connections could be expressed in the educational policies curriculum or in the science and mathematics teachers educational practices Sometimes those connections are scarce but in other moments full integration is achieved The Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education presents results of good practices and interdisciplinary educational approaches in science and mathematics It presents a broad range of approaches for all educational levels from kindergarten to university Covering topics such as computer programming mathematics in environmental issues and simple machines this major reference work is an excellent resource for administrators and educators of both K 12 and higher education government officials pre service teachers teacher educators librarians researchers and academicians

*Policy Analysis in the United States* John A. Hird,2018-03-21 Policy Analysis in the United States gathers a group of original contributions by scholars and leading practitioners of public policy analysis Originating in the United States the field of public policy analysis has affected nations around the world and been enhanced by contributions of scholars and practitioners in other regions but it remains most highly developed and practiced in education and government here This volume explores the nature of policy analysis in different sectors and at different levels of government as well as by nongovernmental actors such as unions businesses NGOs and the media

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web a unit used to measure nuclear radiation equal to the amount of radiation that produces  $2 \times 10^9$  ion pairs when it passes through 1 cm<sup>3</sup> of dry air rem the quantity of ionizing radiation that does as much damage to human tissue as

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web nuclide identified by the number of protons and neutrons in its nucleus mass defect difference between the mass of an atom and the sum of the masses of its protons neutrons and electrons binding energy per nucleon binding energy of the nucleus divided by the number of nucleons it contains band of stability