

## Gas Properties PhET Simulation Worksheet

### Learning Goals

- Design experiments to measure the relationship between pressure, volume, and temperature, and moles of an ideal gas.
- Describe these relationships graphically (using graphs) and quantitatively (using numbers).

### Experiment

1. Go to [Gas Properties PhET Simulation](https://phet.colorado.edu/en/simulations/gas-properties) and click on the picture. Select Ideal.
  - a. <https://phet.colorado.edu/en/simulations/gas-properties>
2. Familiarize yourself with the controls.

### Ideal Screen

Pump gas molecules into a container and discover what happens as you change the volume, add or remove heat, and more.

The screenshot shows the PhET Gas Properties simulation interface. The central window displays a 3D container filled with blue and red particles. To the left, there are three control panels: 'COUNT' (number of particles), 'RESIZE' (container width), and 'ADD or REMOVE' (heat). To the right, there are three more control panels: 'HOLD' (parameter constant), 'VIEW' (container width), and 'PUMP' (particles). At the bottom, there are icons for 'STOP', 'RESET', 'HELP', 'FULL SCREEN', and 'PHET'.

3. Perform an experiment to determine the relationship between the variables listed in the table below. Summarize your findings by explaining the relationship between variables.

| Variables | Constant | Explain your Experiment | Relationship Between Variables |
|-----------|----------|-------------------------|--------------------------------|
| V and P   | T        |                         |                                |
| V and T   | P        |                         |                                |

# Gas Properties Simulation Activity Answer Key

**SJ Ball**



**Gas Properties Simulation Activity Answer Key:**

## Decoding **Gas Properties Simulation Activity Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gas Properties Simulation Activity Answer Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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