

<http://www.gpb.org/chemistry-study-of-matter/episodes/902>

### Boyle's Law

- The Volume of a fixed mass of gas varies indirectly with the pressure at constant temperature
- $PV = k$
- $P_1V_1 = P_2V_2$

### Kinetic Theory and Boyle's Law

- Pressure of a gas is caused by the molecules of the gas striking the walls of the container
- If the gas is compressed to half the volume it had, twice as many molecules are present in any given volume
  - Twice as many impacts per second on the walls of the container
  - pressure of the gas will double

Ex 1: A balloon filled with Helium has a volume of 457 mL at standard atmospheric pressure. After the balloon is released, it reaches an altitude of 6.3 km where the pressure is only 65.5 kPa. What is the volume of the balloon at this altitude?

$$P_1V_1 = P_2V_2$$

$$P \downarrow \frac{1}{2} \quad V \uparrow \times 2$$

$$101.3 \text{ kPa} \times 457 \text{ mL} = 65.5 \text{ kPa} \times V_2$$

$$V_2 = 706.8 \text{ mL}$$

Ex 2: Under a pressure of 673 mm Hg, a confined gas has a volume of 335 mL. If the pressure is increased until the volume is 252 mL, what is the new pressure, assuming the temperature remains constant?

$$P_1V_1 = P_2V_2$$

$$673 \text{ mmHg} \times 335 \text{ mL} = P_2 \times 252 \text{ mL}$$

$$P_2 = 828.2 \text{ mmHg}$$

# Episode 2gpb Answer Key

**JG Myers**



**Episode 2gpb Answer Key:**

The Top Books of the Year Episode 2gpb Answer Key The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Episode 2gpb Answer Key : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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