

Boyle's Law Apparatus Worksheet

Discussion Questions

Part 1. Boyle's Law

1. Look at the graph of the data. Describe what happened to the volume of air in the syringe as you increased the mass on the hanger.
2. Describe the shape of the graph.
3. How would you describe the relationship between the mass (pressure) and volume?
4. Convert the mass into an actual pressure value in Newtons/cm². Then make a plot of V versus 1/P and describe the relationship.

Part 2. Charles's Law

5. Look at the graph of the data. Describe what happened to the volume of air in the syringe as the temperature changed.
6. Describe the shape of the graph.
7. How would you describe the relationship between temperature and volume?

Part II. Divergence and Rift Valley Formation

Observations/Drawings

Questions (Use a separate sheet of paper to answer the following questions.)

1. Based on your observations for Part II, describe what happens as continental plates diverge.
2. List an example of where the type of movement seen in Part II (divergence) occurs.
3. Label possible weak points in your final drawing for Part II. How is the formation of these weak points different from those seen in Part I?