

Unit 1 & 2: Nature of Science (Throughout several chapters in Physical Science)**Essential questions:**

- What are the different types of scientific investigations?
- What are the components of a good scientific experiment?
- What steps are involved in conducting scientific investigations?
- What are the requirements for a valid hypothesis?
- Has scientific knowledge changed over time?
- What can change scientific knowledge?
- Do changes in scientific knowledge occur often?

Key vocabulary:

- Hypothesis
- Independent variable
- Dependent variable
- Experimental group
- Control group
- Constants
- Experiment

Practicing:

Sarah decides to perform an experiment to determine the effect adding salt on the conductivity of water. She predicts that the more salt added to the water the more conducting the solution will be. Sarah tests the conductivity of three samples:

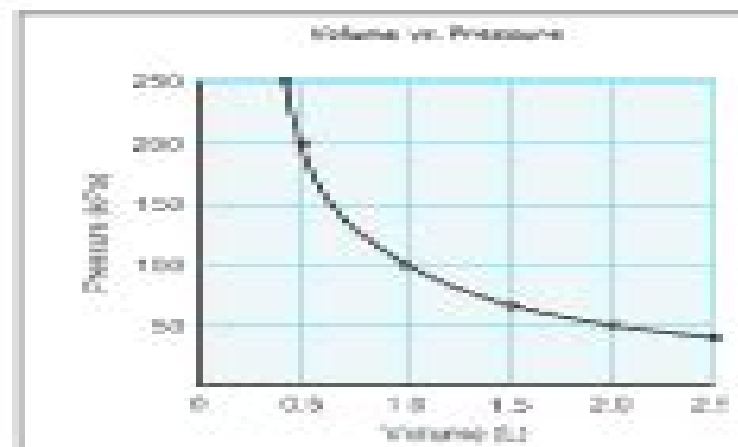
Sample	Amount of salt	Amount of water	Temperature of water
A	0 g	100 mL	25 °C
B	2.0 g	100 mL	25 °C
C	4.0 g	100 mL	25 °C

Identify each component of this experiment:

1. Hypothesis _____
2. Independent variable _____
3. Dependent variable _____
4. Experimental group _____
5. Control group _____
6. Constants _____

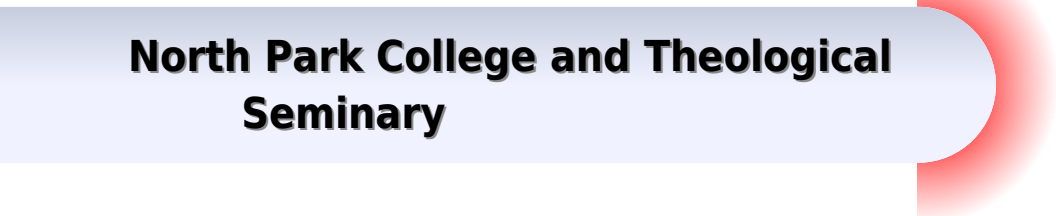
Use the graph to answer the following questions:

7. As volume increases, pressure (increases / decreases / stays the same).
8. If the volume is doubled the pressure (also doubles / is cut in half / stays the same).



Physical Science Semester Course Review Answer

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and frequently hostile mathematical sciences. These crises in mathematics presage difficulties for science and engineering and alarms are beginning to sound in the scientific and even in the political communities. Citing a trend towards virtual scientific and technological illiteracy and a shrinking of our national commitment to excellence in science, mathematics, and technology, a recent study conducted for the President by the U.S. National Science Foundation and Department of Education warns of serious impending shortcomings in public understanding of science. Today people in a wide range of non-scientific professions must have a greater understanding of technology than at any time in our history. Yet our educational system does not now provide such understanding. The study goes on to conclude that present trends pose great risk of manpower shortages in the mathematical and engineering sciences. The pool from which our future scientific and engineering personnel can be drawn is in danger of becoming smaller even as the need for such personnel is increasing. It is time to take a serious look at mathematics tomorrow.

Embracing the Tune of Phrase: An Emotional Symphony within **Physical Science Semester Course Review Answer**

In a world eaten by screens and the ceaseless chatter of fast transmission, the melodic beauty and mental symphony developed by the prepared term usually disappear into the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. But, set within the pages of **Physical Science Semester Course Review Answer** a wonderful fictional treasure full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this fascinating masterpiece conducts visitors on a mental journey, well unraveling the concealed tunes and profound influence resonating within each carefully constructed phrase. Within the depths with this poignant review, we can examine the book's key harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

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