# PHYSICAL SCIENCES (CHEMISTRY) GRADE 11 TERM 1 FORMAL EXPERIMENT - PART 2 VERIFICATION OF BOYLE'S LAW MARKING GUIDELINES

1.1 • Aim stated correctly. 
 e.g. To determine the relationship between the volume of a fixed

e.g. To determine the relationship between the volume of a fixed amount of gas and the pressure on the gas when temperature remains constant.

(1)

(5)

(65)

- 1.2 All apparatus listed ✓
  - 1. Boyle's Apparatus
  - 2. Pump
  - All steps of the method correct and logically stated, ✓✓ correct tense used. ✓✓

e.g.

- The tap on the Boyle's Law apparatus was opened and then the pump was connected.
- The apparatus was pumped to the pressure.
- 3. The oil was allowed to settle for a few minutes.
- A table was used to record the volume reading on the tube and the corresponding pressure reading on the Bourdon pressure gauge.
- The air tap was slightly opened and quickly closed to let a little air escape from the system. The oil was allowed to settle for a few minutes and then the pressure and volume readings were taken.
- 6. 5 different readings were recorded in the table.

2. Observations and Recording of results:

Learners will use results obtained during experiment to complete the table below.

Volume (V) cm <sup>3</sup>	Pressure (p) kPa	pV (*)
1000		
	1	
		29

Marking guidelines:

- ✓ for correct values of the volume
- ✓ for correct values of the pressure
- ✓ ✓ for correct values of

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#### **Table of Contents Formal Tests Grade 11**

- 1. Understanding the eBook Formal Tests Grade 11
  - The Rise of Digital Reading Formal Tests Grade 11
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Formal Tests Grade 11
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Formal Tests Grade 11
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Formal Tests Grade 11
  - Personalized Recommendations
  - Formal Tests Grade 11 User Reviews and Ratings
  - Formal Tests Grade 11 and Bestseller Lists
- 5. Accessing Formal Tests Grade 11 Free and Paid eBooks
  - Formal Tests Grade 11 Public Domain eBooks

- Formal Tests Grade 11 eBook Subscription Services
- Formal Tests Grade 11 Budget-Friendly Options
- 6. Navigating Formal Tests Grade 11 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Formal Tests Grade 11 Compatibility with Devices
  - Formal Tests Grade 11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Formal Tests Grade 11
  - Highlighting and Note-Taking Formal Tests Grade 11
  - Interactive Elements Formal Tests Grade 11
- 8. Staying Engaged with Formal Tests Grade 11
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Formal Tests Grade 11
- 9. Balancing eBooks and Physical Books Formal Tests Grade 11
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Formal Tests Grade 11
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Formal Tests Grade 11
  - Setting Reading Goals Formal Tests Grade 11
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Formal Tests Grade 11
  - Fact-Checking eBook Content of Formal Tests Grade 11
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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