



## Introduction to working as a Chemist.

Use a highlighter as you work through this booklet. ESL students, make vocab lists of the terminology that is defined or described here.

## Assessment Statements

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Outline</b> the Scientific Method</li> <li><input type="checkbox"/> <b>Identify</b> independent, dependent &amp; controlled variables.</li> <li><input type="checkbox"/> <b>Demonstrate</b> correct and safe use of laboratory equipment.</li> <li><input type="checkbox"/> <b>Distinguish</b> between quantitative and qualitative data                         <ul style="list-style-type: none"> <li>➤ <i>Qualitative is descriptive, not using numbers, e.g. properties, colour, gas production, sound, odor.</i></li> <li>➤ <i>Quantitative is mathematical, including</i> <ul style="list-style-type: none"> <li>◊ <i>Raw data (as recorded)</i></li> <li>◊ <i>Processed (after calculations)</i></li> </ul> </li> </ul> </li> <li><input type="checkbox"/> <b>Distinguish</b> between accuracy and precision                         <ul style="list-style-type: none"> <li>➤ <i>Accuracy describes the correctness of a set of measurements</i></li> <li>➤ <i>Precision describes the repeatability of a set of measurements</i></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>State</b> SI units of measurement for                         <ul style="list-style-type: none"> <li>➤ <i>Mass: grams (g)</i></li> <li>➤ <i>Length: Metres (m), millimeters (mm)</i></li> <li>➤ <i>Concentration: molarity (M)</i></li> <li>➤ <i>Temperature: Degrees Celsius (°C)</i></li> <li>➤ <i>Volume: Litres (L) or millilitres (mL)</i></li> <li>➤ <i>Density: grams per cubic centimeter (g/cm<sup>3</sup>)</i></li> <li>➤ <i>Conductivity: Siemens (S)</i></li> <li>➤ <i>Acidity or alkalinity (pH)</i></li> </ul> </li> <li><input type="checkbox"/> <b>Energy:</b> Joules (J or kJ)<b>Determine</b> the uncertainty of digital and analog measuring tools                         <ul style="list-style-type: none"> <li>➤ <i>Usually <math>\pm 1</math> of the smallest division</i></li> </ul> </li> <li><input type="checkbox"/> <b>Calculate</b> the % error of a given or recorded set of values                         <ul style="list-style-type: none"> <li>➤ <i><math>(\text{Measured} - \text{True}) / \text{True} \times 100</math></i></li> </ul> </li> <li><input type="checkbox"/> <b>State</b> values to appropriate numbers of significant figures</li> <li><input type="checkbox"/> <b>Calculate</b> values to appropriate numbers of significant figures</li> </ul> |
|--|---|

## Related Concepts:

- ☐ 01.1 Element symbols (Quia quiz: <http://www.quia.com/quiz/3246640.htm>)
- ☐ 01.2 Accuracy, Precision, Error, Uncertainty (Quia quiz: <http://www.quia.com/quiz/3507626.htm>)
- ☐ 01.3 SigDigs and Notation (Quia quiz: <http://www.quia.com/quiz/3504378.htm>)

## Command Terms: Be sure you understand what is being asked of you

Analyse Break down to identify key parts. Interpret information to reach conclusions.

Apply	Use knowledge & understanding in response to a real situation or given circumstances.
Calculate	Obtain a numerical answer, showing relevant stages in the working.
Define	Give the precise meaning of a word, phrase, concept or physical quantity.
Describe	Give a detailed account or picture of an event, pattern, process or pattern.
Design	Produce a plan, simulation or model.
Determine	Obtain the only possible answer.
Discuss	Offer a considered and balanced review that includes a range of arguments, factors or hypotheses. Opinions or conclusions should be presented clearly and supported by appropriate evidence.
Distinguish	Make clear the differences between two or more concepts or items.
Evaluate	Assess the implications and limitations; make judgments about the ideas, works, solutions or ideas in relation to selected criteria.
Explain	Give a detailed account including reasons or causes.
Identify	Provide an answers from a number of possibilities. Recognise and state briefly a distinguishing fact or feature.
Label	Add title, labels or brief explanation(s) to a diagram or graph.
List	Give a sequence of answers with no explanation.
Outline	Give a brief account.
Recall	Remember or recognize from prior learning experiences.
State	Give a specific name, value or other brief answer without explanation or calculation.
Suggest/Propose	Propose a solution, hypothesis or other possible answer.

# Polytechnic Chemistry Lab Manual

**Patrick Vollmar**



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## **Table of Contents Polytechnic Chemistry Lab Manual**

1. Understanding the eBook Polytechnic Chemistry Lab Manual
  - The Rise of Digital Reading Polytechnic Chemistry Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Polytechnic Chemistry Lab Manual
  - 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 Polytechnic Chemistry Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Polytechnic Chemistry Lab Manual
  - Personalized Recommendations
  - Polytechnic Chemistry Lab Manual User Reviews and Ratings
  - Polytechnic Chemistry Lab Manual and Bestseller Lists

5. Accessing Polytechnic Chemistry Lab Manual Free and Paid eBooks
  - Polytechnic Chemistry Lab Manual Public Domain eBooks
  - Polytechnic Chemistry Lab Manual eBook Subscription Services
  - Polytechnic Chemistry Lab Manual Budget-Friendly Options
6. Navigating Polytechnic Chemistry Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Polytechnic Chemistry Lab Manual Compatibility with Devices
  - Polytechnic Chemistry Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Polytechnic Chemistry Lab Manual
  - Highlighting and Note-Taking Polytechnic Chemistry Lab Manual
  - Interactive Elements Polytechnic Chemistry Lab Manual
8. Staying Engaged with Polytechnic Chemistry Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Polytechnic Chemistry Lab Manual
9. Balancing eBooks and Physical Books Polytechnic Chemistry Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Polytechnic Chemistry Lab Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Polytechnic Chemistry Lab Manual
  - Setting Reading Goals Polytechnic Chemistry Lab Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Polytechnic Chemistry Lab Manual
  - Fact-Checking eBook Content of Polytechnic Chemistry Lab Manual
  - 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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