



## 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>&gt; <i>Qualitative is descriptive, not using numbers, e.g. properties, colour, gas production, sound, odor.</i></li> <li>&gt; <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>&gt; <i>Accuracy describes the correctness of a set of measurements</i></li> <li>&gt; <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>&gt; <i>Mass: grams (g)</i></li> <li>&gt; <i>Length: Metres (m), millimeters (mm)</i></li> <li>&gt; <i>Concentration: molarity (M)</i></li> <li>&gt; <i>Temperature: Degrees Celsius (°C)</i></li> <li>&gt; <i>Volume: Litres (L) or millilitres (mL)</i></li> <li>&gt; <i>Density: grams per cubic centimeter (g/cm<sup>3</sup>)</i></li> <li>&gt; <i>Conductivity: Siemens (S)</i></li> <li>&gt; <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>&gt; <i>Usually ± 1 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>&gt; <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.

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

# Introduction To Chemistry Lab Manual Answers

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Pickering, Dale T. Griffiee**

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## **Table of Contents Introduction To Chemistry Lab Manual Answers**

1. Understanding the eBook Introduction To Chemistry Lab Manual Answers
  - The Rise of Digital Reading Introduction To Chemistry Lab Manual Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Chemistry Lab Manual Answers
  - 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 Introduction To Chemistry Lab Manual Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Chemistry Lab Manual Answers
  - Personalized Recommendations
  - Introduction To Chemistry Lab Manual Answers User Reviews and Ratings
  - Introduction To Chemistry Lab Manual Answers and Bestseller Lists
5. Accessing Introduction To Chemistry Lab Manual Answers Free and Paid eBooks
  - Introduction To Chemistry Lab Manual Answers Public Domain eBooks
  - Introduction To Chemistry Lab Manual Answers eBook Subscription Services
  - Introduction To Chemistry Lab Manual Answers Budget-Friendly Options
6. Navigating Introduction To Chemistry Lab Manual Answers eBook Formats

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