



## 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 ± 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>➤ <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> |
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## 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.

# Chemistry A Basic Introduction Lab Manual

**Karen C. Timberlake, Pearson**



## Chemistry A Basic Introduction Lab Manual:

**Laboratory Manual for Introductory Chemistry** Charles H. Corwin, 2011-12-28 Emphasizing environmental considerations Corwin's acclaimed lab manual offers a proven format of a prelaboratory assignment a stepwise procedure and a postlaboratory assignment More than 300 000 students to date in Introductory Chemistry Preparatory Chemistry and Allied Health Chemistry have used these bullet proof experiments successfully The Sixth Edition features a completely updated interior design new environmental icons denoting green features updated prelabs and much more Corwin's lab manual can be packaged with any Pearson Intro Prep Chemistry book

**General Chemistry Laboratory Manual and Notebook** Philip Borer, 2020-07-10 *Introduction to Chemistry Lab Manual* Donald Siegel, 2011-08-10 Introduction to Chemistry Lab Manual Siegel, 2007-07-10

**Essential Lab Manual for Chemistry** Karen C. Timberlake, Pearson, 2005-07 Contains 25 experiments for the standard course sequence of topics

**Laboratory Manual for Elementary Chemistry** Keith S Anliker, 2021-08-23

**A Laboratory Manual of Organic Chemistry for Beginners** Arnold Frederick Holleman, 1913 *Basic Chemistry and Introductory Chemistry Laboratory Manual* Steven S. Zumdahl, 1999-12-01

**Chemistry 1406** Jesse Yeh, 2012-07-20 The Essential Lab Manual Karen Timberlake, 2002-06-24 Drawing from the successful main Laboratory Manual the Essential Laboratory Manual includes twenty one experiments which have been revised and updated Suitable for a one or two term lab course

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1979

*Community College of Philadelphia* Michael Rathmill, 2019-08-26

**Pretechnical Post High School Programs** United States. Division of Vocational and Technical Education, 1967

Introductory Chemistry Charles H. Corwin, 2007-10-12 0135023432 9780135023433 Introductory Chemistry Concepts Connections Value Pack includes Study Guide Selected Solutions Manual Essential Lab Manual for Chemistry An Introduction to General Organic Biological Chemistry Package consists of 0132321483 9780132321488 Introductory Chemistry Concepts Connections 0132321505 9780132321501 Study Guide Selected Solutions Manual 0805330232 9780805330236 Essential Lab Manual for Chemistry An Introduction to General Organic and Biological Chemistry

Lab Manual - Chemistry: A Basic Intro Brooks/Cole, Charles M. Wynn, Gary A. Joppich, 1981-01-01

*Laboratory Manual for Principles of General Chemistry* Jo Allan Beran, 2004-04-15 This remarkably popular lab manual has won over users time and time again with its exceedingly clear presentation and broad selection of topics and experiments Now revised and fine tuned this new Seventh Edition features three new experiments Water Analysis Solids Experiment 3 Vitamin C Analysis Experiment 16 and Hard Water Analysis Experiment 30 In addition nearly 90% of the Prelaboratory Assignment Questions and Laboratory Questions are either new or revised

General Chemistry of the Enzymes Hans von Euler, 1912

*Outlines of Human Embryology* George Reese Satterlee, 1914

*The Cumulative Book Index*, 1922

**Journal of Chemical Education**, 1928

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