



### 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)</li> <li><input type="checkbox"/> <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

**AN Whitehead**



## **Polytechnic Chemistry Lab Manual:**

## Whispering the Strategies of Language: An Emotional Quest through **Polytechnic Chemistry Lab Manual**

In a digitally-driven world where displays reign great and instant connection drowns out the subtleties of language, the profound strategies and emotional nuances concealed within phrases frequently move unheard. However, nestled within the pages of **Polytechnic Chemistry Lab Manual** a captivating literary treasure blinking with fresh thoughts, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that marvelous opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the very cloth of each and every word. Within the emotional depths with this poignant evaluation, we will embark upon a sincere exploration of the book is core styles, dissect their charming writing fashion, and fail to the effective resonance it evokes serious within the recesses of readers hearts.

<https://crm.avenza.com/public/virtual-library/index.jsp/Owners%20Manual%20For%20Husky%20Air%20Compressor.pdf>

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