



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"> <input type="checkbox"/> Outline the Scientific Method <input type="checkbox"/> Identify independent, dependent & controlled variables. <input type="checkbox"/> Demonstrate correct and safe use of laboratory equipment. <input type="checkbox"/> Distinguish between quantitative and qualitative data <ul style="list-style-type: none"> ➤ <i>Qualitative is descriptive, not using numbers, e.g. properties, colour, gas production, sound, odor.</i> ➤ <i>Quantitative is mathematical, including</i> <ul style="list-style-type: none"> ◊ <i>Raw data (as recorded)</i> ◊ <i>Processed (after calculations)</i> <input type="checkbox"/> Distinguish between accuracy and precision <ul style="list-style-type: none"> ➤ <i>Accuracy describes the correctness of a set of measurements</i> ➤ <i>Precision describes the repeatability of a set of measurements</i> | <ul style="list-style-type: none"> <input type="checkbox"/> State SI units of measurement for <ul style="list-style-type: none"> ➤ <i>Mass: grams (g)</i> ➤ <i>Length: Metres (m), millimeters (mm)</i> ➤ <i>Concentration: molarity (M)</i> ➤ <i>Temperature: Degrees Celsius (°C)</i> ➤ <i>Volume: Litres (L) or millilitres (mL)</i> ➤ <i>Density: grams per cubic centimeter (g/cm³)</i> ➤ <i>Conductivity: Siemens (S)</i> ➤ <i>Acidity or alkalinity (pH)</i> <input type="checkbox"/> Energy: Joules (J or kJ)Determine the uncertainty of digital and analog measuring tools <ul style="list-style-type: none"> ➤ <i>Usually ± 1 of the smallest division</i> <input type="checkbox"/> Calculate the % error of a given or recorded set of values <ul style="list-style-type: none"> ➤ <i>$(\text{Measured} - \text{True}) / \text{True} \times 100$</i> <input type="checkbox"/> State values to appropriate numbers of significant figures <input type="checkbox"/> Calculate values to appropriate numbers of significant figures |
|--|--|

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



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