



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.

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Basic Concepts of Chemistry Leo J. Malone, Theodore O. Dolter, 2011-12-27 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment. New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections, assessment exercises at the end of each section, and relevant chapter problems at the end of each chapter. Every concept in the text is clearly illustrated with one or more step-by-step examples. Making it Real essays have been updated to present timely and engaging real-world applications, emphasizing the relevance of the material they are learning. This edition continues the end-of-chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter. WileyPLUS sold separately from text.

Experiments and Exercises in Basic Chemistry Steven Murov, Brian Stedjee, 2003-03-12 Taking an exploratory approach to chemistry, this hands-on lab manual for preparatory chemistry encourages critical thinking and allows students to make discoveries as they experiment. A set of exercises provides students with additional opportunities to test their understanding of key concepts in introductory and prep chemistry courses. Written in a clear, easy-to-read style. Numerous experiments to choose from cover all topics typically covered in prep chemistry courses. Chemical Capsules demonstrate the relevance and importance of chemistry.

El-Hi Textbooks and Serials in Print, 1995 R. R. Bowker Publishing, 1995-02

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Stedjee, 1989-05-12 This second edition of the lab manual for first-year chemistry students has been revised and updated to

provide a tight correlation with most introductory textbooks and in particular is cross-referenced to Basic Concepts of

Chemistry Third Edition by Leo J. Malone. This manual offers the instructor flexibility; experiments need not be performed in

order. Pedagogical aids include prelaboratory exercises, results and questions, and post-lab exercises, all with answers.

Physical Science Lab Manual Answer Key, 2006-02-23 Help students explore and understand the world around them. With

the full color Physical Science text students learn the properties of matter elements compounds electricity and sound and light Students reading significantly below grade level gain practice in working with data and sharpen their abilities to infer classify and theorize Lexile Level 840 Reading Level 3 4 Interest Level 6 12 *Chemistry Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Naser Answer Key for Clin Chem Lab Manual** Granada Learning Limited,1998-08-01 **Chemistry Lab Manual** Peter T. Wassell,2011-06-10 **CHEM 111 Lab Manual General Chemistry** Christofield,2017-08-06 **Keys to Chemistry with Laboratory Manual** Elaine W. Ledbetter,Jay A. Young,1977

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Chemistry Lab Manual Answer Key Murov**

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