# Chemistry Lab



#### 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

Outline the Scientific Method State SI units of measurement for Identify independent, dependent & controlled Mass: grams (q) variables. Length: Metres (m), millimeters (mm) Demonstrate correct and safe use of laboratory Concentration: molarity (M) equipment. Temperature: Degrees Celsius (°C) Distinguish between quantitative and qualitative Volume: Litres (L) or millitres (mL) Density: grams per cubic centimeter Qualitative is descriptive, not using Eq./cmi\*) numbers, e.g. properties, colour, gas Conductivity: Siemens (S) production, sound, odor. Acidity or alkalinity (pH) Quantitative is mathematical, including Energy: Joules (J or kJ) Determine the Raw data (as recorded) uncertainty of digital and analog measuring tools Processed (after calculations) Usually ± 1 of the smallest division Distinguish between accuracy and precision Calculate the % error of a given or recorded set Accuracy describes the correctness of a cold words were: set of measurements ((Measured - True) / True) x 100 Precision describes the repeatability of a State values to appropriate numbers of set of measurements significant figures Calculate values to appropriate numbers of significant figures

#### Related Concepts:

□ 01.1 Element symbols (Quia quie: http://www.guia.com/quie/3246640.html)
□ 01.2 Accuracy, Precision, Error, Uncertainty (Quia quie: http://www.guia.com/quie/3507626.html)
□ 01.3 SigDigs and Notation (Quia quie: http://www.guia.com/quie/3504378.html)

#### 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. Give a detailed account or picture of an event, pattern, process or pattern. Describe Design Produce a plan, simulation or model. Dieter milme 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. Add title, labels or brief explanation(s) to a diagram or graph. Lobel List Give a sequence of answers with no explanation. Give a brief account. Outline Recall Remember or recognize from prior learning experiences. Store Give a specific name, value or other brief answer without explanation or calculation. Suggest Propose a solution, hypothesis or other possible answer.

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<u>Investigating Chemistry Lab Manual + Student Solutions Manual</u> Matthew Johll, David Collins, Jason Powell, 2008-12-31 LAB MANUAL FOR CHEMISTRY: ATOMS FIRST Gregg Dieckmann, John W. Sibert, 2017-10-31 This laboratory manual presents a curriculum that is organized around an atoms first approach to general chemistry Our motivation for writing this manual is to 1 tap into the natural curiosity present in all of us and provide engaging experiments that students will find interesting 2 emphasize topics that students find particularly challenging in the general chemistry lecture course and 3 create a laboratory environment that encourages students on occasion to solve puzzles and not just follow recipes All too often students view general chemistry lab as a boring exercise in which an exact set of instructions is followed leading to an answer that in many cases results in a good grade regardless of how much learning has taken place To these students the successful lab is the one that takes the least amount of time Unfortunately a huge opportunity to get students truly turned on to science is missed To us the laboratory represents high stakes ground for engagement and relatively low stakes for grading as the laboratory is typically a single credit course or minor component to the lecture grade Thus while the rigor of the experiments in this manual can be tuned to meet the needs of the instructor our hope is that students will be encouraged to play safely with chemical concepts and laboratory techniques with grades simply being a natural consequence of their laboratory actions To facilitate such a mindset this manual has been written to provide instructors with a weekly tool that can attract and keep student interest while providing important connections to the material covered in an atoms first lecture course Our philosophy student curiosity leads to engagement which leads to discovery which leads to learning The manual is for a freshman level general chemistry laboratory course and serves as an ideal supplement for any atoms first general chemistry textbook such as Chemistry Atoms First by Julia Burdge and Jason Overby It is designed for students at all levels from those seeing chemistry for the first time to chemistry majors **General Chemistry** Brady, 1990-01-02 Catalog of

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