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## Standard and Microscale Experiments in General Chemistry

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 Summary: Part 1: EQUIPMENT. A. Common Laboratory Safety Equipment. B. Common Laboratory Glassware. C. Common Equipment. Part 2: LABORATORY TECHNIQUES. A. Handling Chemicals. Solids. Liquids. B. Determination of Mass and Weight. Triple-Beam and Platform Balances. Toploading Balances. C. Volumetric Techniques - The Measurements of Volume. Graduated Cylinders. Volumetric Pipets. Burets and Titration Procedures. Volumetric Flasks. D. Laboratory Gas Burner. E. Heating And Evaporating Liquids. F. Separation Techniques. Gravity Filtration. Vacuum Filtration. Use of Centrifuges. G. Ignition of Crucible and Precipitates. H. Working and Handling Glass. Cutting Glass. Fire Polishing Glass. Bending Glass. Inserting Glass Tubing, Thermometers, and Funnel Stems into Corks and Rubber Stoppers. I. Collecting Gases. Testing for Odor. Collection for Gases. An Improvised Fume Hood. J. Spectrophotometer. Calibration and Use of Spectrophotometer. Measurements of Sample. K. Treatment of Experimental Data. Significant Figures. Report Average Values. L. pH Meter. M. Melting And Boiling Determination. Melting Point Determination. Boiling Point Determination. An Exercise in Chemical Safety and Laboratory Rules. Part 3: EXPERIMENTS (\* MICRO EXPERIMENTS). 1.\* Background: Review of Simple Mathematics (Experiment 1\*). Experiment 2. Density of Solids and Liquids: Mass/Volume Measurements. Experiment 3...

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