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## Lab manual for chemistry

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Please click on the link below to access the information you need. This online laboratory manual was created by the Faculty of Chemistry at SMC, other institutions that want to use our laboratories may do so if the SMC is accepted and the laboratory is not sold for profit. Preface III Laboratory Safety and Guidelines 1 Data Sheet 5 Data Analysis 9 Laboratory Techniques 17 Experiments A. Introduction of Dry Laboratory 1 Laboratory and SI 43 Experiments 1 Basic Laboratory Operations 51 B. Chemical and Physical Composition Experiments 2 Identifying Compounds: Chemical Properties 59 Experiments 3 Water Analysis: Solid 67 Experiments 4 Paper Chromatography 75 Water Trials 5 Percent In Hydrating Salt 85 Dry Lab 2A Nomenclature I. Oxidation Number 91 Dry Lab 2B Inorganic Naming System II. Binary Compounds 94 Dry Laboratory 2C Inorganry Naming System III. Ternary 98 Experimental Compound 6 Base Acids and Salt 103 C. Concept Experimental 7 Empirical Formula 115 Trial 8 Ltd. 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