PREFACE

In the new "Regulations of the Education Department of the Province of Ontario" the work formerly prescribed under "Chemistry of the Lower School" has been changed by the omission of "The Atomic Theory and Molecular Theory" and the insertion of "Mixtures, solutions, chemical compounds, elements, combining weights, chemical formulæ and equations, with easy numerical examples"; while to the "Chemistry of the Upper School" there has been added "Chemical and physical reactions, rates of reactions, reversible reactions, chemical equilibrium," and the paragraph requiring a practical examination has been removed. These changes have been adopted by the University in defining the work for Junior Matriculation.

Some of these subjects—chemical equilibrium, for instance—are new, and are introduced to bring the teaching up to date; others, such as mixture, element, etc., were implicitly prescribed in the old curriculum, but by printing them among the Requirements their importance has been emphasized.

It is hoped the this little book may prove of service to the Teachers of Chemistry throughout the Province by supplying them with concrete examples for use in their 1 sons and in the school laboratories, and by attracting their attention to some loose ways of speaking and thinking that ought to be avoided. Many of the experiments were worked out with Dr. F. B. Kenrick for a course of lectures delivered in 1898-1900; and Dr. F. B. Allan's experience as Departmental Examiner has helped very much in deciding what to include and what to leave out—the author is glad of this opportunity of thanking his colleagues for their assistance

The University of Toronto Christmas, 1904