

PREFACE

THE "Suggestions" in the following pages have been prepared mainly in the interests of those teachers in our Continuation and High Schools who, through lack of experience or of proper opportunities, often feel themselves at a loss in dealing with the many details of the Elementary Science work of the Lower School. This Course embraces work in Physics, Chemistry, Botany, and Zoology, and while there are excellent manuals dealing more or less fully with each of these departments, it has been felt that a useful purpose would be served if the beginner in science teaching could have at hand a single reference book containing such hints upon class management, selection of suitable works for extended reading, manipulation of apparatus, and other details, as the experience of some of our teachers of long standing has proved to be of value.

A glance through the pages will show that the "Suggestions" are not in any sense intended to take the place of text-books or to exempt the teacher from the pursuit of information through the channels of the standard literature, but rather by hints and references to stimulate him to personal efforts in various directions. In the part relating to Physics, for example, instead of details of certain experiments which are described in standard text-books, reference is made to those text-books, and the teacher is expected to have them on the library shelves. In Botany and Zoology, in like manner, frequent reference is made to desirable publications in which the