assumes that abundant drill work has been provided by the teacher in connection with each subject. treated. The work will also be found to harmonize well with the recommendations of the College Entrance Examination Board, which require that students should be familiar with the fundamental principles of grammar and rhetoric. Inasmuch as entrance examinations to colleges may include questions involving such essentials, it is important that the study of the latter should go hand in hand with that of the texts. For this purpose the present primer will be found admirably well adapted, especially in view of the fact that it is not burdened with many illustrations and comments which are of no value.

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MERRILL'S ELEMENTARY TEXT-BOOK OF THEORETICAL MECHANICS, by George A. Merrill, B.S., Principal of the California School of Mechanical Arts, and Director of the Wilmerding School of Industrial Arts, San Francisco. *American Book Company, New York.*

This book is intended for the upper classes in secondary schools and for the two lower classes in college. Only a knowledge of elementary algebra, plane geometry, and plane trigonometry is required for a thorough comprehension of the work. The book presents only those principles and methods which are of the greatest importance, and thus overcomes many of the difficulties now encountered by students who are looking forward to an industrial career in engineering—civil, mechanical or electrical. While the very nature of the subject requires a liberal application of mathematics, the author has kept constantly in mind the fact that mechanics is one of the inductive sciences. On the other hand, as this is a text-book and not a treatise or a history of mechanics, it is written from the standpoint of the student in the manner that experience has proved to be the one most easily grasped. The few necessary experiments are suggested and outlined, but no effort has been made to include a complete laboratory course. Any good teacher, however, could easily arrange a parallel course of laboratory exercises. The explanation of each topic is followed by a few well-chosen examples to fix and apply the principles involved. Four-place tables of the natural trigonometric functions appear at the end of the book.