It is usually thourght that chemical arithmetic is something unique, whereas it is too had been "If 196 grams of sulphuric acid yields 22.412 litres of sulphuric dioty whereas it is a superior acid yield?", nearly every condition have well as the appear and such as the appea how many litres will 98 grams of sulphuric acid yields 22.412 litres of sulphuric out the answer, and yet that was all there was in the question, since the equation supplied the data. The only thing required was to indeed, and the formulae of the countries of t The only thing required was to understand that the formula it in grams obtaining by adding the presented the weight in grams obtaining by adding the numbers represented by symbols, and that when weights are in grams that the numbers represented by symbols, and that when weights are in grams the formula of a gas always represented the volume, 22.412 litres, under standard conditions of temperature and pressure teachers would insist upon this point, and give the pupils a little practice so that the year, a number of the standard conditions of temperature and pressure. would gain familiarity with the idea, an immense improvement would be made year, a number of candidates seemed to have learned mechanically that the of a gas represented by its formula is 22.412 litres; but to have failed utterly to see this knowledge gave them the clue to the problem. A little care on the part of the teachers could cure this fault. A little care on the part of the teachers could cure this fault.

It will be well to draw the attention of pupils to the application of chemistry ordinary life, even if it may be difficult for the examiner to ask a satisfactory question of that character.

My books, "A School Chemistry" and "The Arithmetic of Chemistry" have been along the lines which I think most suitable for the distance of the written along the lines which I think most suitable for beginners, and though the tions in the examinations are such as any textbook will provide for, these books not definitely emphasize points of importance.

TONIC SOL-FA IN SCHOOL.

It is quite clear to the Superintendent of Education, that those on not aid in introducing the tonic sol for the Education, that those schools are the schools of the sol for the schools of the schools do not aid in introducing the tonic sol-fa notation into the public school are responsible for the lack of good general to the public schools and are responsible for the lack of good general singing in all our schools, and for the comparatively few who advance for for the comparatively few who advance far enough to take an interest in learning the classical staff notation. in learning the classical staff notation. The simplicity of the tonic solution would enable the masses to read music in the simplicity of the tonic solution. would enable the masses to read music in the common school grades with the result of stimulating thousands. with the result of stimulating thousands more to take up later the stall notation.

SCHOOL SINGING IN BRITAIN AND AMERICA

Among the most recent of interesting events in the educational world have like visit of some hundreds of British teachers to American the visit of some hundreds of British teachers to America, organized by Mr. Mosely and the return visit of an even larger number of teachers from the United States and Canada to Great British.

"The Musical Herald" publishes in its April issue a representative selection in the remarks on school music contained in the reports of the British teachers; and may issue it gives letters on singing in British schools obtained from teachers whose names were to be supported by the schools obtained from the support of the British teachers. May issue it gives letters on singing in British schools, obtained by itself from Union Teachers. It is very interesting to compare the opinions expressed, and to obtain to be heard in the United States. The American British schools in British schools are the opinions of the National Observation of the States. The American teachers are especially enthusiastic in praise of the careful attention to value of the careful attention to value of the second singing in Britain is far superior to the careful attention to value of the careful attention of the careful attention to value of the careful attention of the c is to be heard in the United States. The American teachers are especially enthusing great proficiency in sight and to voice-production in the schools, and to the great proficiency in sight and to voice-production in the schools, and to the great proficiency in sight and to the great profice profit in praise of the careful attention to voice-production in the English schools, and to the anotation.

The American teachers are especially entitle great proficiency in sight-reading which is due to the transfer of the reading teachers. great proficiency in sight-reading which is due to the use of the Tonic Sol-fa method and notation.

It seems not uplificate the second of the Tonic Sol-fa method and notation.

It seems not unlikely that one result of the inter-change of visits will be the inter-change of visits will be the inter-structure in the past the st entirely unknown. duction of the Tonic Sol-fa method into the United States, where it has in the past of teaching of vocal music in the past of the inter-change of visits will be the best best almost entirely unknown.

All those interested in the past of the past almost entirely unknown. All those interested in the success of good methods for the steps he has taken in this matter. (From "The This Gazette," Capetown, Thursday, 5th August, 1990. for the steps he has taken in this matter. (From "The Education Gazette," Capetorial Thursday, 5th August, 1909.)

Thursday, 5th August, 1909.)

TONIC SOL-FA IN GERMANY.

The excellencies of the Tonic Sol-Fa method of teaching vocal music took direct opposition from established music-teachers and from the music took of the many and other foreign source of the teaching that the many and other foreign source of the teachers and from the musicians. opposition from established music-teachers and from professional musicians; many and other foreign countries, on the other hand professional musicians; with its many and other foreign countries, on the other hand, it was looked on merely with it