THE TEACHERS' ASSISTANT, OR, A SYSTEM OF PRACTICAL ARITHMETIC; WHEREIN THE SEVERAL RULES OF THAT USEFUL SCIENCE ARE ILLUSTRATED BY A VARIETY OF EXAMPLES: A LARGE PROPORTION OF WHICH ARE IN FEDERAL MONEY

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649718399

The Teachers' Assistant, or, a System of Practical Arithmetic; Wherein the Several Rules of That Useful Science Are Illustrated by a Variety of Examples: A Large Proportion of Which Are in Federal Money by S. Pike

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S. PIKE

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THE WHOLE DESIGNED

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AND TO FACILITATE

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COMPILED BY S. PIKE.

PHILADELPHIA:

PUBLISHED BY JOHSONN AND WARNER, NO. 147, MARKET-STREET; B. AND T. KITE, NO. 20, NORTH THIRD-STREET; AND BY STEPHEN PIKE, NO. 22, NORTH SECOND-STREET.

W. Brown, Printer, 24, Church-alley.

1811.

DISTRICT OF PENNSYLVANIA, TO WIT:

L. S. BE IT REMEMBERED, That on the twenty-third day of September, in the thirty-sixth year of the independence of the United States of America, A.D. 1811, JOHNSON and WARNER of the said District, have deposited in this Office the title of a Book, the right whereof they claim as proprietors in the words following, to wit:

"The Teachers Assistant, or a System of Practical Arithmetic; "wherein the several rules of that useful science, are illustrated "by a variety of examples, a large proportion of which are in "Federal Money. The whole designed to abridge the labour of "Teachers, and to facilitate the Instruction of Youth. Compiled "by S. PIKE."

In conformity to the act of the congress of the United States, intituled, "An Act for the encouragement of learning, by securing the copies of Maps, Charts and Books, to the authors and proprietors of such copies during the times therein mentioned."—And also to the act, entitled, "An Act supplementary to an Act, entitled "An Act for the encouragement of learning, by securing the copies of Maps, Charts, and Books, to the authors and proprietors of such copies during the times therein mentioned," and extending the benefits thereof to the arts of designing, engraving, and etching historical and other prints."

D. CALDWELL,
Clerk of the District of Pennsylvania.

PREFACE.

THE design of the following work, is to furnish the several rules of arithmetic concisely expressed, together with a variety of applicative examples, arranged in such order, that the learner may advance by gradations, from what is simple to what is more abstruse, and be unobstructed in his progress by ignorance of particulars that he should previously have known.

The compiler is aware, that a number of works of a similar nature are already in use, and that most of them are possessed of considerable merit; yet he believes he has, in several respects, improved upon them. Whether he has or not, after making a few remarks, he will submit to the judicious to determine.

Under each of the rules in the TEACHER'S ASSISTANT, one or more wrought examples are given, which afford an opportunity of explaining and illustrating them. Of the examples for the application of the several rules, the easiest occur first, such as are similar mostly succeed each other, and all are delivered in as familiar terms as could readily be employed. Federal money, as far as the five primary rules are concerned, is treated of separately, and agreeably to the manner in which it is used in trade—mills being mostly rejected. Before entering upon Compound Addition, a portion of Reduc-

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tion is introduced, which appears necessary, in order to explain that rule, as well as Compound Multiplication and Compound Division.

Besides the foregoing particulars, a number more might be adduced that are conceived to be worthy of attention; such as the arrangement of the rules and examples in Practice, Simple Interest, Tare and Tret, &c. but these, with the whole work, are referred to teachers and others interested in the subject.

RECOMMENDATIONS.

Philadelphia, Sept. 16, 1811.

THE Treatise on Arithmetick, by Mr. S. PIKE of this city, which you requested me to look over, I have paid some attention to, and view it as a work of merit.—It certainly deserves an introduction into our academies as an excellent school book, which cannot fail of being acceptable to all those teachers, who are aware of the importance connected with the facility of cultivating and improving the understandings of their pupils.

I am, respectfully, your's,

WILLIAM ROGERS, D. D.
Professor of English and Belle Lettres in the University of Pennsylvania.

Messrs. Johnson & Warner.

Philadelphia, Sept. 23, 1811.

AGREEABLY to your request I have examined Mr. PIKE's Treatise of Arithmetic, and am much pleased with it. His mode of exemplifying the rules, is, I think, extremely well accommodated to the comprehension of juvenile pupils; while the general arrangement, extent, and scientific execution of the work, renders it worthy of adoption in both public and private seminaries.

JAMES ABERCROMBIE, D. D.
Director of the Philadelphia Academy.

Messrs. Johnson & Warner.

Philadelphia, Ninth mo. 26, 1811.

I HAVE examined the System of Arithmetic compiled by S. PIKE, and am of opinion that it is well calculated for conveying to youth, in a short time, a general knowledge of that science.

The commendable attention which the compiler has

paid to a clear elucidation of his subject, as well as his careful exclusion of any thing which would unnecessarily perplex, entitles him to the thanks of those who are engaged in the labourious task of imparting knowledge to youth.

BENJAMIN TUCKER.

Philadelphia, Sept. 16, 1811.

AFTER a careful inspection of Mr. S. PIKE's System of Arithmetic, I give it a decided preferance to every other I have yet seen, and shall be glad of the publication of a work, that, in my opinion, will deduct from the labour of teaching, and conduce to the advantage of learners.

JOHNSON TAYLOR.

Philadelphia, Sept. 30, 1811.

GENTLEMEN,

I HAVE no hesitation in declaring my belief, in concurrence with the gentlemen who have already recommended S. PIKE's System of Arithmetic, that its publication will conduce to the public and private utility of the arithmetical student. Your's, &c.

SAMUEL B. WYLIE.

Messrs. Johnson & Warner.

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