

Clear objectives

Objectives are clearly indicated at the top of the page of each lesson.

Clear summaries of basic concepts and key mathematical topics

Concepts, rules, ways of thinking, and calculation processes are summarized in windows indicated as “Basics.” Discussions in the “Basics” windows are in accord with the explanations in Tokyo Shoseki's Mathematics for Elementary School (Grades 1 to 6) textbook. It is recommended that students look at the “Basics” windows carefully before going on to the next section.

Colorful representations that help promote deep understanding

Representations such as pictures, diagrams, tape models, line segment models, double number line models, and area models are used to help promote deep thinking and understanding in students.

Emphasis on writing math expressions

Throughout the grade levels (1 to 6), students are asked to write math expressions as a part of solving problems. Showing a complete solution by writing a math sentence, calculating by using an algorithm, and writing a complete answer with the appropriate unit are emphasized and developed. Through studying these workbooks, students are expected to develop the necessary skills to communicate their solution ideas through math expressions which is very important for learning algebra.

Carefully selected practice and challenge problems

“Skill building/story problems” pages:

The purpose of these pages is to help students to build a solid understanding of the content they have learned. They provide carefully selected problems and exercises so students can practice and improve their problem-solving skills.

“Practice” pages:

These pages contain carefully selected problems and appear at the end of each unit. They are designed to assess students' understanding and learning. The bottom of each page says, “If you don't understand, go back to ...” and gives references where students and teachers can go back to and review content that was not mastered.

“Check” pages:

To help students retain their understanding and learning, “Check” pages are added. These pages include contents from multiple units that students have studied previously so that they can continuously practice what they are learning throughout the grade level.

Great tool for evaluation

Teachers and students can monitor students' learning progress by scoring and recording points on each page.