**Program Overview**

Primary Mathematics (2022 Edition) is a K-5 program written to reflect the current best practices of math instruction in Singapore. The content and lesson structure are completely new, and do not resemble those of previous Primary Mathematics editions. The development of this series was led by Dr. Kho Tek Hong who helped create the original Primary Mathematics series.

Like previous editions of Primary Mathematics, the program builds strong problem solving, critical thinking, and computational skills through classic Singapore math methods, such as the concrete-pictorial-abstract approach and bar modeling. The scope and sequence are similar to previous editions of Primary Mathematics, and topics are aligned to state and national standards.

**Readiness-Engagement-Mastery Model**

Chapters and daily lessons are based on the Readiness-Engagement-Mastery model of learning used in Singapore classrooms. In the Readiness phase, students make connections to previously learned concepts and skills to be sure they have the base knowledge to succeed with learning goals. In the Engagement phase, students learn by doing and construct new knowledge through engaging activities and guided inquiry. In the Mastery phase, students gain fluency, confidence, and deeper conceptual understanding through practice and problem solving.

**Components**

The core components are the Student Book, Additional Practice, Mastery & Beyond, and Home Instructor's Guide (or Teacher's Guide). Like previous Primary Mathematics editions, there are A and B level books for the two halves of the school year.

Student books (all considered core):

- Student Book
- Additional Practice
- Mastery & Beyond

Educator books:

- Teacher's Guide
- Home Instructor's Guide
- Assessment Guide Teacher Edition

**Component Details**

Student Book: This is the textbook of the program.

Additional Practice: This is the workbook of the program. It provides practice after every lesson to build proficiency and confidence.

Mastery and Beyond: This is a distributed practice workbook. It is a new student component based on research on the efficacy of this style of practice. It provides practice of essential math concepts at select points so students continually make connections with math concepts. While the Additional Practice is

for daily use, Mastery and Beyond is intended to be used at key points in a chapter after multiple lessons.

Home Instructor's Guide: Intended to accompany the Student Book, the Guide provides home educators with Student Book answers, select worked solutions and teaching ideas as well as strategies to facilitate exploration, discussion, and student-centered learning. The front matter provides background on the program structure, lesson and concept development, and an overview of the Readiness-Engagement-Mastery model of learning.

Teachers Guide: The Teacher's Guide provides teachers with teaching ideas and strategies to facilitate exploration, classroom discussion, and student-centered learning. It also includes ideas for differentiation, ideas for small group learning, and answers with select worked solutions. The front matter provides background on the program structure, lesson and concept development, and an overview of the Readiness-Engagement-Mastery model of learning.

Assessment Guide Teacher's Edition: This contains both student assessments and answer keys. There are chapter tests, cumulative assessments, and mid-year and end-of-year assessments.