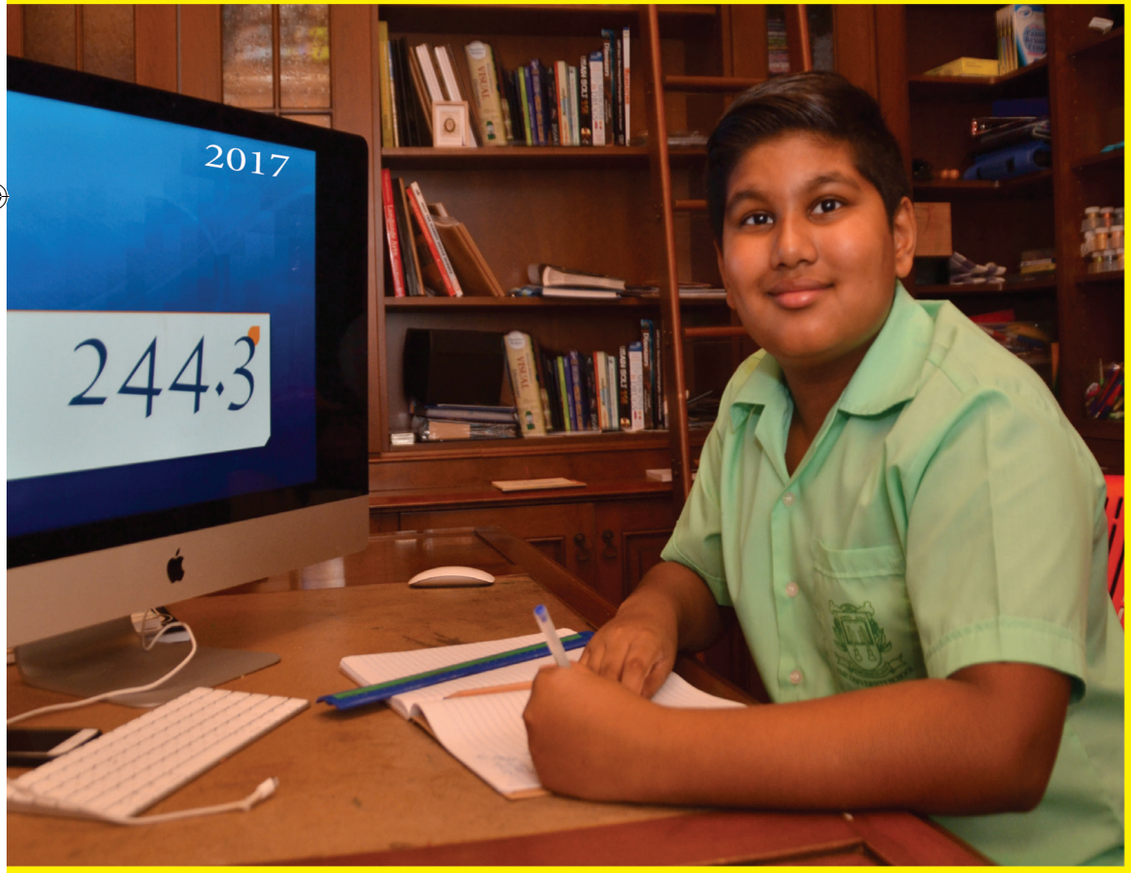
Connecting Mathematics

for Primary School
Standard 4 and 5



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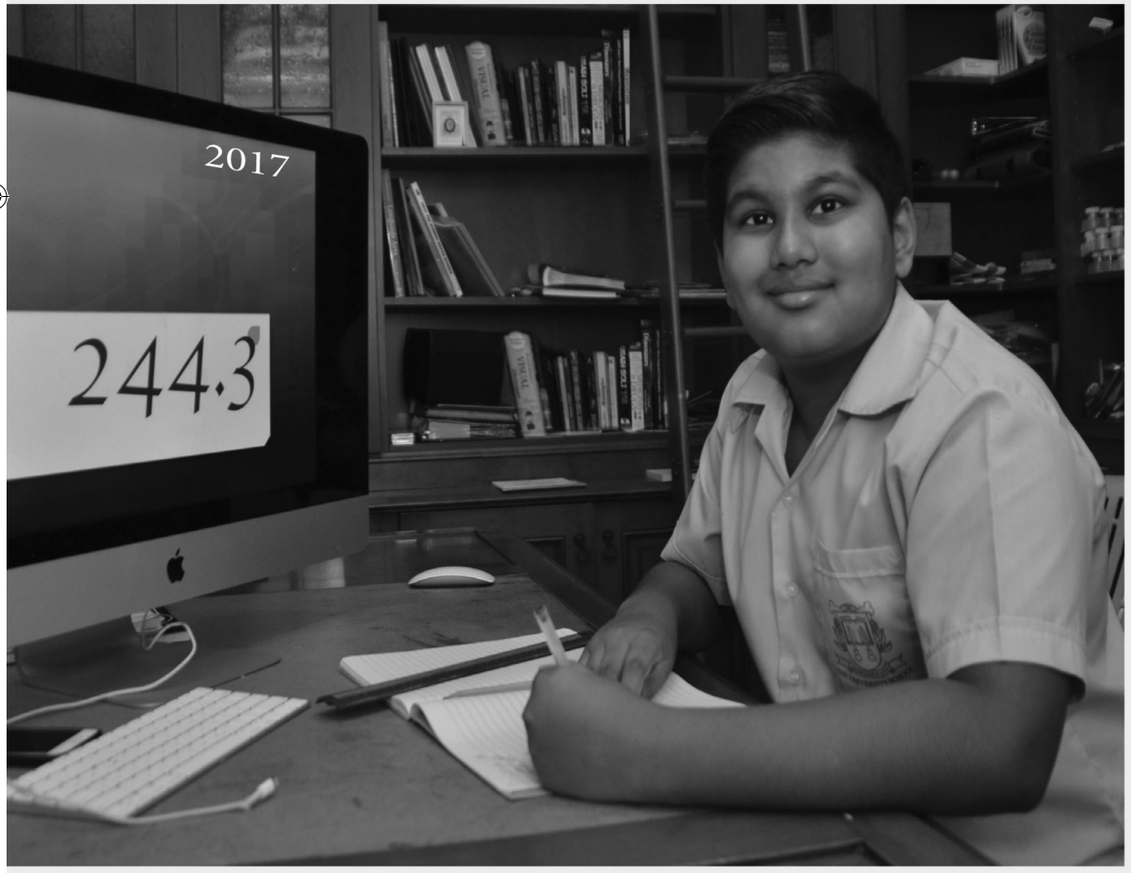

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Preface

Connecting Mathematics for Primary School Standard 4 and 5 was designed to teach the content of the **Primary Curriculum: Mathematics, 2013.** Use of this book will allow students to gain a deeper understanding of concepts, to develop fluency with skills, and, to become confident in problem solving. In turn, they will be prepared for all formal assessments including the SEA examinations.

There is equal emphasis on conceptual understanding and skill development. Teaching Points present the use of concrete and pictorial representations before moving on to more symbolic forms. Throughout the book, there is an abundant use of clear, attractive visuals which introduce concepts and model solutions to allow students to gain mastery.

Problem solving is central to all mathematics study. This book is organized to support students to become problem solvers. They are encouraged to use Polya's problem solving steps. They are given the opportunity to use bar modelling as a strategy to assist with reasoning while solving problems.

Topics are sequenced within the chapters to facilitate learning through instruction. Content for new topics is scaffolded carefully and thoroughly to develop understanding through activities, and promote guided learning, before moving on to independent learning. The activities and lessons build foundations for number, operations, algebraic thinking, measurement, geometry and statistics.

Vocabulary terms are introduced to students in each chapter. This lets them connect the terms to their understanding of the concepts, expand their abstract reasoning ability and move beyond operations to problem solving.

By using this book, students will be able to develop the ability to think and reason creatively and critically. They will also be able to make connections with concepts and real life experiences. Each chapter begins with a picture and content that shows the relevance of the Mathematics topic to everyday life. Thereby making them appreciate mathematics.

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