



R I S I N G   A C A D E M Y  
N E T W O R K

## Radio Primary Numeracy by Rising

With the closure of schools due to the COVID19 pandemic, Rising has adapted our foundational numeracy content to create a radio program that will strengthen and build students' foundational numeracy skills even when they are out of school. Our approach builds off decades of research into the science of how children learn mathematical concepts. Students learning at home require no learning materials but there is the option to provide printable worksheets and additional support via SMS.

Our math program has been simplified to two learning levels: (1) lower primary students in Grades 1-3 and (2) upper primary students in Grades 4-6. Focusing on these two grade bands allows for a streamlined approach making it easier for families and children to follow when they are out of school. Each lesson starts with an introductory health and safety message. The learning content focuses on the foundational skills that all students need to master to be successful later in their education.

The lower primary program builds understanding of place value, addition and subtraction. There is an emphasis on building students' mathematical vocabulary and number fluency. Regular practice of counting builds students' preparedness for multiplication and division.

The upper primary program extends understanding of place value to include larger numbers; consolidates understanding of addition and subtraction; and builds understanding of multiplication and division. Mental math problems give students the chance to enhance number fluency.

Learning level	Radio content	Optional Printed Materials	Optional SMS Support
Lower Primary (Grades 1-3)  Phase 1 - 8 weeks Phase 2 - 12 weeks	Lesson content where children practice foundational skills	Hundreds grids  Place value charts and ways to represent <i>units of number</i> .  Formal methods of addition and subtraction.	Reminders and advice for parents on how to support their children
Upper Primary (Grades 4-6)	Lesson content where children	Formal methods of multiplication and	Reminders, word problems for

Phase 1 - 8 weeks Phase 2 - 12 weeks	reinforce and build upon foundational skills	division.	students based on the four operations.
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### Example Primary Numeracy Lesson Structure

Part	Title	Description	Focus Skills
Part 1	Mindful Moment	Students engage in a calming and attention building activity such as breathing, balancing, stretching and focusing on a sound or color	Self-regulation Emotional Intelligence Observation
Part 2	Number Warmup	Students practice counting by 1s and skip counting to 10s to build a foundation for multiplication and division.  Students will also practice addition and subtraction facts within 20 to build a strong foundation for three digit addition and subtraction.	Skip counting fluency  Fact fluency (all 4 operations)
Part 3	Number Workout	Students will build, practice, and reason about foundational maths skills and concepts through the use of readily available manipulatives, formal methods, and discussion	Place value  Addition and Subtraction within 10,000  Multiplication and Division within 100
Part 5	Challenge Problems	Students apply previous learning in open ended problems	Problem Solving  Place value  Addition and Subtraction within 10,000  Multiplication and Division within 100