



RISING ACADEMY
NETWORK

Radio Junior Secondary School Maths by Rising

Rising has responded to the closure of schools caused by the COVID19 pandemic by adapting our Junior Secondary School maths content to create a radio program that will strengthen and build students' foundational skills even when they are out of school. Students learning at home require a notebook and pencil.

This program is appropriate for students in the Junior Secondary or High School level and employs a research-backed approach based on how students learn mathematics. Our Maths program builds the following skills: *place value; basic operations (addition, subtraction, multiplication, division) of positive and negative integers, fractions and decimals; indices; standard form (scientific notation) and powers of ten; ratios and rates; perimeter and circumference of a circle; area of a circle; unit conversion; percentage and interest/business calculations; introduction to probability; statistics (mean, median, mode, range, IQR); indices rules and manipulation; surds (2^{nd} , 3^{rd} , 4^{th} roots); algebra: simplifying expressions, substitution, solving equations).*

Each lesson starts with functional skills needed to excel in Maths before progressing on to a series of examples and activities to help consolidate and extend learning. Securing this foundation provides the launching pad needed for students to be successful later in their education.

Phase 1 Overview: 20 weeks (5 lessons per week)

Each lesson consists of:

Part	Title	Description	Focus Skills
Part 1	Warm up	Students engage in a short exercise to release energy and be prepared to sit for the lesson. This is followed by multiplication and division practice from 2 to 12 using skip counting, rote learning and mixed practice.	Self-regulation Skip counting fluency Multiplication fluency
Part 2	homework answers	Answers to homework from the previous day will be given	Self-checking Self-assessment of success.

Part 3	lesson	Students learn new skill with lots of examples given.	Note taking Problem Solving
Part 4	give homework with BECE question	Homework questions based on the lesson will be given with the expectation that students will do this work on their own before the next lesson. A BECE question will be given where appropriate to engage year 3 students.	New skill practice BECE practice Note taking Problem Solving