

LESTER ENG

Private Mathematics Tutor | Secondary to JC Mathematics | O-Level E/A Math | JC H1/H2 Math
Applied Mathematics & Statistics Specialist | Conceptual Clarity | Real-Life Applications



Singapore | In-Person & Online | WhatsApp/Phone: +65 8758 8329 | Email: radicalsimplicity@gmail.com | Website: radicalsimplicity.com |
Instagram: @radicalsimplicitymath

PROFESSIONAL SUMMARY

Private mathematics tutor with more than 20 years of tutoring experience across Secondary, JC and early university mathematics. Has taught approximately 50 past and current students, and currently supports more than 10 students across secondary, JC and university-level mathematics. Teaching approach combines patience, strong conceptual clarity, diagnostic questioning and real-world applications to help students understand the “why” behind mathematics, build confidence, and become independent problem-solvers.

Brings a strong applied mathematics and statistics background from industry, together with structured teaching experience at AGrader, Kovan Learning Centre and NTU. Particular strength in the Secondary-to-JC mathematics pipeline, including Lower Secondary foundations, O-Level E/A Mathematics, JC H1/H2 Mathematics and exam-oriented problem-solving.

CORE TUTORING PROFILE

Audience	Pipeline Focus	Teaching Edge
Parents seeking credible, structured support; students needing clarity, confidence and exam readiness.	Lower Secondary foundation, O-Level E/A Math mastery, JC readiness and JC H1/H2 performance.	Patient explanations, on-the-fly diagnosis, custom problems, visual clarity and real-life applications.

TEACHING EXPERIENCE

Private Mathematics Tutor | Present

- Provides 1-to-1 and small-group support for secondary, JC and university-level mathematics through both in-person and online lessons. Currently teaches more than 10 active students and has taught approximately 50 past and current students over more than 20 years.

Guest Lecturer, Nanyang Technological University (NTU) | 2019

- Delivered mathematics and analytics-related instruction in a tertiary learning environment.

Tutor, Kovan Learning Centre | 2018-2020

- Provided structured small-group instruction for Secondary and JC Mathematics.

Tutor, AGrader Learning Centre | 2017

- Supported Secondary and JC Mathematics students in a structured tuition-centre environment.

TEACHING APPROACH

- Emphasises conceptual clarity and the “why” behind methods, rather than relying mainly on rote drilling or memorised templates.
- Identifies gaps quickly through targeted, on-the-fly questions and adapts explanations in real time to match the student’s needs and learning style.
- Creates original, customised problems to expose misconceptions, strengthen weak areas and prepare students for unfamiliar exam questions.
- Builds independent problem-solvers by teaching students to recognise patterns, select methods appropriately and transfer concepts across question types.
- Maintains an encouraging, patient and approachable learning environment so students feel comfortable asking questions and rebuilding confidence.
- Links mathematics to real-world applications in engineering, data, systems, finance and everyday decision-making to make abstract ideas meaningful.

SELECTED STUDENT OUTCOMES

- JC H2 Mathematics students have typically achieved A or B grade outcomes under sustained support.
- Secondary Mathematics students have often achieved A-grade outcomes in O-Level E Mathematics and A Mathematics.
- Most marked JC H2 Mathematics improvement: U grade to B grade as well as E grade to A grade at A-Level examinations.
- Topic-focused improvement: one student improved from 4/25 to 21/25 after three targeted lessons on a specific topic.

- Broader outcomes include improved confidence, stronger motivation and greater willingness to attempt unfamiliar questions independently.

APPLIED MATHEMATICS EXPERIENCE RELEVANT TO TEACHING

Professional background includes applied mathematics, statistics and modelling work across manufacturing, supply chain, healthcare, banking and government-related contexts. This experience supports concrete explanations and shows students how school mathematics is used beyond the classroom.

School Mathematics Area	Real-World Application Used in Teaching
Binomial & Normal Distributions	Statistical sampling plans for manufacturing quality control; deciding how many units to inspect from large production batches.
Hypothesis Testing	Formal t-tests and z-tests to validate whether process changes produced meaningful improvements.
Calculus & Optimisation	Capacity and cost-optimisation models across supply networks; connecting differentiation to decision-making.
Probability & Simulation	Monte Carlo simulation for inventory, uncertainty and operational risk planning.
Regression & Forecasting	Time-series and statistical forecasting models used to reduce forecast error and improve planning decisions.

SUBJECTS AND LEVELS

Subject	Level	Key Topics	Teaching Focus
Lower Secondary Mathematics	Sec 1-2	Algebra, number sense, geometry, data, ratio	Foundation before upper secondary
O-Level E Mathematics	Sec 3-4	Numbers, geometry, statistics, probability, applications	A1/A2 target with confident methods
O-Level A Mathematics	Sec 3-4	Algebra, trigonometry, calculus, polynomials	A1/A2 target and JC readiness
JC H1 Mathematics	JC 1-2	Calculus, statistics, functions	A/B grade with conceptual clarity
JC H2 Mathematics	JC 1-2	Calculus, vectors, complex numbers, functions, statistics, hypothesis testing, correlation and regression	A/B grade with problem-solving depth
University Mathematics	Yr 1-2	Calculus, linear algebra, statistics, engineering mathematics, discrete mathematics	Bridging and foundation support

EDUCATION

M.S. Industrial Engineering - Georgia Institute of Technology, USA - GPA 3.8 / 4.0

M.S. Logistics & Supply Chain Management - National University of Singapore - CAP 4.9 / 5.0

B.Eng. First Class Honours - National University of Singapore - Double Major: Industrial & Systems Engineering + Financial Mathematics - CAP 4.8 / 5.0

Raffles Institution & Raffles Junior College - A in JC Mathematics; A1 in O-Level E Mathematics; A1 in O-Level A Mathematics

PROFESSIONAL CERTIFICATIONS

- Association of Mathematics Educators (AME) - Member, Singapore professional body for mathematics educators.
- Advanced Certificate in Learning & Performance (ACLP) - Formal adult education and instructional design qualification; supports structured technical training.
- Lean Six Sigma Black Belt - Applied statistical rigour, process improvement and data-driven problem solving.

STUDENT FEEDBACK

"Creates questions tailored to my learning." - Secondary School Student, Additional Mathematics

"Always tries his best to make sure I get the concept and even brings real-world examples into it." - JC Student, H2 Mathematics

"Very approachable and encouraging. I do not feel the usual pressure I get with teachers." - Secondary School Student, E Math & A Math

"I appreciate how after teaching content, he gives real-life examples on the spot to test my understanding, and I really enjoy it." - JC Student, H2 Mathematics

"I think you teach really well. You are very approachable and encouraging. I learned a lot from the way you explain and solve problems." - Secondary School Student, A Mathematics

SESSION FORMATS

- 1-to-1 tuition: fully personalised support based on the student's gaps, pace and exam goals.
- Small-group tuition: 2 to 8 students, structured for peer discussion, shared Q&A and guided practice.
- Online and in-person tuition: clear explanation, digital workboards and targeted custom problem sets.

ENQUIRIES | Email: radicalsimplerity@gmail.com | WhatsApp / Phone: +65 8758 8329 | Website: radicalsimplerity.com | Instagram: [@radicalsimpleritymath](https://www.instagram.com/radicalsimpleritymath)