

LESTER ENG

Private Mathematics Tutor | JC H2 Mathematics Specialist

Radical Simplicity: Think, Not Just Solve

Singapore | In-Person & Online
+65 8758 8329
radicalsimplcity@gmail.com
radicalsimplcity.com
IG: @radicalsimplcitymath

PROFESSIONAL SUMMARY

Mathematics tutor helping Secondary and JC students move from memorising steps to understanding concepts through my **Radical Simplicity** approach, so they can solve unfamiliar problems with confidence. With **20+ years of tutoring experience since 2003**, peer-reviewed operations research publication experience, and professional practice applying mathematics at global MNCs, I combine academic rigour, real-world relevance, and patient coaching to drive significant grade improvement and lasting mathematical confidence.

20+ Years Tutoring	50+ Students Taught	10+ Current Students
E→A & U→B H2 Results	EJOR Publication	MNC Applied Mathematics

FLAGSHIP FOCUS: JC H2 MATHEMATICS

Why H2 Mathematics JC H2 Mathematics is my flagship subject because I understand the leap from O-Level to A-Level rigour: heavier content, faster pace and unfamiliar multi-step questions. I help students cross that gap by rebuilding concepts, strengthening exam transfer and developing independent mathematical reasoning. SEAB-aligned focus: functions, graphs, sequences & series, calculus, vectors, complex numbers, probability, distributions, hypothesis testing, correlation and regression. Advanced learners can bridge school mathematics to advanced applications.	Selected Student Outcomes <table><tr><th>Level</th><th>Improvement</th><th>Approach</th></tr><tr><td>JC H2</td><td>E→A</td><td>Conceptual rebuilding + exam transfer</td></tr><tr><td>JC H2</td><td>U→B</td><td>Foundation diagnosis + targeted practice</td></tr><tr><td>Secondary</td><td>4/25→21/25</td><td>Focused weak-area correction</td></tr></table> <i>Broader outcomes: stronger motivation, reduced math anxiety and greater willingness to attempt unfamiliar questions independently.</i>	Level	Improvement	Approach	JC H2	E→A	Conceptual rebuilding + exam transfer	JC H2	U→B	Foundation diagnosis + targeted practice	Secondary	4/25→21/25	Focused weak-area correction
Level	Improvement	Approach											
JC H2	E→A	Conceptual rebuilding + exam transfer											
JC H2	U→B	Foundation diagnosis + targeted practice											
Secondary	4/25→21/25	Focused weak-area correction											

TEACHING METHOD & REAL-WORLD APPLICATIONS

The Radical Simplicity Method Diagnose: pinpoint the exact gap with targeted questions Rebuild: explain why methods work using intuition, diagrams and analogies Customise: create original questions for each student's weak areas Transfer: move from familiar examples to unfamiliar exam questions Build independence: train systematic reasoning, not template memorisation	Applied Mathematics Links Used in Lessons Distributions: manufacturing sampling & quality control Hypothesis testing: t-tests/z-tests for process validation Calculus/optimisation: capacity, cost & resource allocation Probability/simulation: Monte Carlo methods for inventory & risk Regression/forecasting: demand trends & data interpretation Vectors/systems: spatial reasoning & engineering interdependencies
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SUBJECTS & TEACHING SCOPE

Level	Focus
JC H2 Mathematics (Flagship)	Functions, graphs, sequences & series, calculus, vectors, complex numbers, probability, statistics; significant grade improvement, exam transfer and advanced application exposure.
JC H1 Mathematics	Calculus, statistics and functions; conceptual clarity, exam readiness and targeted practice.
O-Level A Mathematics	Algebra, trigonometry, calculus, polynomials and problem-solving; preparation for JC Mathematics.
O-Level E / Lower Secondary	Foundation strengthening, confidence building, Sec-to-JC pipeline development and exam readiness.
Polytechnic / University	Module-dependent support: calculus, linear algebra, statistics, engineering mathematics, industrial engineering, operations research, etc.

SELECTED TEACHING EXPERIENCE

Role	Period	Scope
Private Mathematics Tutor	2003-Present	Started tutoring during university years; 1-to-1 and small-group tuition with flagship focus on JC H2 Mathematics.
Tutor, Kovan Learning Centre	2018-2020	Structured small-group instruction for Secondary and JC Mathematics.
Guest Lecturer, NTU	2019	Mathematics and analytics-related instruction in a higher education setting.
Tutor, AGrader Learning Centre	2017	Secondary and JC Mathematics support in a structured tuition-centre environment.
Mathematics Teacher, Taitung County, Taiwan	2008	Classroom mathematics teaching and cross-cultural instructional experience.

EDUCATION, CREDENTIALS & RESEARCH

Education	Professional Credentials	Peer-Reviewed Research
- M.S. Industrial Engineering, Georgia Tech - GPA 3.8/4.0 - M.S. Logistics & Supply Chain Management, NUS - CAP 4.9/5.0 - B.Eng. First Class Honours, NUS - Industrial & Systems Engineering + Financial Mathematics, CAP 4.8/5.0 - Raffles Institution / RJC - A in JC Mathematics; A1 in O-Level E & A Mathematics	- Association of Mathematics Educators (AME) - Member - Advanced Certificate in Learning & Performance (ACLP) - Lean Six Sigma Black Belt - applied statistics & process improvement	Eng, S. W. L., Chew, E. P. & Lee, L. H. (2014). "Impacts of supplier knowledge sharing competences and production capacities on radical innovative product sourcing." <i>European Journal of Operational Research</i> , 232(1), 41-51.

STUDENT FEEDBACK

"He creates his own questions tailored to my learning - every session feels designed specifically for me." — JC Student, H2 Mathematics	"After teaching content, he gives real-life examples on the spot to test my understanding, and I really enjoy it." — JC Student, H2 Mathematics
"Very approachable and encouraging... patient with my questions and explains things clearly until I actually understand." — Secondary School Student, E Mathematics	"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

Enquiries: Contact via WhatsApp or email for a no-obligation discussion on JC H2 Mathematics, Secondary-to-JC pipeline support, or selected Polytechnic/University modules.