



G2 Additional Mathematics (A-Math) - 2-Page Success Checklist

For Singapore Secondary students and parents under Full Subject-Based Banding (Full SBB). Use this to spot gaps fast, study in the right order, and decide if tuition will accelerate results.

What is G2 A-Math?

What it is: Additional Mathematics offered at the G2 standard (built from the former N(A) standard under Full SBB).

Typical national paper: GCE N(A)-Level Additional Mathematics (4051).

Bridge: 4051 is designed to prepare students for O-Level A-Math (4049) if they progress later.

What makes it worth it

What you learn: Algebra, Geometry & Trigonometry, and Calculus.

Why it feels tough: A-Math is a 'language' - weak algebra makes every topic slow.

What wins marks: Correct method, clear working, and correct interpretation in context.

Exam reality check (2026)

Match your practice to your paper. Many concepts overlap, but **time pressure** and **problem-solving** emphasis can differ.

	G2 A-Math (N(A) 4051)	O-Level A-Math (4049)
Paper format	P1 1h45 (70) + P2 1h45 (70) Answer ALL	P1 2h15 (90) + P2 2h15 (90) Answer ALL
AO weightings	AO1 50% • AO2 40% • AO3 10%	AO1 35% • AO2 50% • AO3 15%
Study focus	Speed + accuracy on standard methods.	Mixed problems + clear explanation.

Priority checklist (tick honestly)

If you cannot tick at least **5/7**, guided help usually saves months.

- I can simplify confidently (fractions, surds, indices, negative signs).
- I can solve quadratics & inequalities and sketch basic quadratic graphs.
- I can use trig identities and solve trig equations in a stated interval.
- I can differentiate and find gradient/tangent and optimisation answers.
- I can integrate basic functions and find area with correct limits.
- I show working clearly (method marks matter).
- I keep an Error Log and re-do wrong questions within 48 hours.

Fast self-test: 15 min mixed set. If >30% time is spent stuck on algebra, fix algebra first - it unlocks everything.



High-score playbook (the 80/20)

- **Auto-pilot techniques:** drill standard methods until they are fast (AO1).
- **Connections:** practise mixed questions early (functions + calculus; algebra + geometry) (AO2).
- **Write for marks:** show key steps; do not skip working, especially calculus and reasoning (AO3).
- **Error Log system:** mistake -> cause -> fix -> one similar question.
- **Timed practice:** short drills (10-15 min) + one longer timed section weekly.

Common traps (quick fixes)

- **Sign errors:** check distribution and negatives; do a quick substitute-check when possible.
- **Trig identities:** rewrite in sin/cos first, then simplify; keep track of intervals.
- **Area limits:** sketch, find intersections, decide above/below x-axis before integrating.
- **Tangent/normal:** write dy/dx , set to slope, and use the curve point to pin the line.
- **Calculator reliance:** use it for arithmetic only; algebraic structure is manual.

A simple 4-week plan

- **Wk 1:** Algebra foundations (quadratics, surds, indices, functions). Daily 40 min.
- **Wk 2:** Trig + coordinate geometry. Add 1 timed mini-paper.
- **Wk 3:** Calculus focus (diff, optimisation, integration + area). Add 2 timed drills.
- **Wk 4:** Exam mode: 2 practice papers/sections + Error Log review and re-do.

Why tuition helps for G2 A-Math

Best use cases: shaky fundamentals, slow methods, repeated careless errors, or no feedback on working.

What good tuition adds: first-principles clarity, targeted practice, timed technique, and rapid correction.

Need help? WhatsApp BukitTimahTutor.com at **+65 8823 1234** (scan the QR in the header).

References (official): MOE Full SBB overview; MOE 2020 G2 & G3 Additional Mathematics syllabuses; SEAB 2026 syllabuses - 4051 (N(A)) and 4049 (O-Level).