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Sec 2 Mathematics Success Checklist

A clean, parent-friendly checklist for Sec 2 Maths (G2/G3) — built for strong fundamentals and A-Math readiness.

Start here: 5-minute readiness scan

Why Sec 2 matters

Sec 2 is where algebra and graphs start to compound. If foundations are stable now, Sec 3/4 becomes manageable — and A-Math feels far less "shocking".

Why tuition with BukitTimahTutor.com

- 3-pax classes for fast feedback and real accountability.
- MOE/SEAB aligned across the national strands and assessment style.
- Diagnostic → targeted drills + timed practice + error-log review.

Priority checklist (high impact topics)

Algebra & Quadratics ☐ Expand & factorise confidently (incl. quadratic expressions). ☐ Solve equations/inequalities and show working clearly. ☐ Model word problems into equations (ratio, speed, cost).	Graphs & Functions Thinking ☐ Linear graphs: gradient as "rate of change"; interpret context. ☐ Simultaneous linear equations (algebraic + graphical). ☐ For G3: quadratic graphs and links to equations.
Geometry, Trig & Mensuration ☐ Similarity/congruence; scale drawings/enlargement. ☐ Pythagoras + right-triangle reasoning. ☐ For G3: trig ratios (sin, cos, tan) in right triangles.	Statistics & Probability ☐ Histograms / stem-and-leaf: read accurately, compare fairly. ☐ Mean/median (incl. grouped mean) + explain choice. ☐ Single-event probability; list outcomes neatly.

Alpha habits (simple, powerful) 1) Error-log. 2) Weekly spaced review. 3) Mixed topical timed sets.

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Sec 2 syllabus at a glance (MOE Full SBB: G2 & G3)

Schools may sequence topics differently, but these are the common Sec 2 building blocks. Use this to spot gaps and plan revision.

G2 (build security) □ Direct & inverse proportion; maps/scale context □ Algebra: simplify, expand, factorise (incl. quadratic forms) □ Linear functions & graphs; gradient; linear equations (incl. fractions) □ Inequalities; simultaneous linear equations (algebra + graph) □ Geometry: polygons/quadrilaterals, similarity/congruence, Pythagoras □ Mensuration: pyramid, cone, sphere □ Statistics: dot/histogram/stem-and-leaf; mean/median/mode; grouped mean □ Probability: single events + listing outcomes	G3 (stretch & accelerate) All G2 core + deeper algebraic manipulation Algebraic fractions (including +/- with linear/quadratic denominators) Quadratic functions & graphs (max/min, symmetry) Quadratic equations by factorisation; quadratic inequalities Trigonometric ratios (sin, cos, tan) in right-angled triangles More multi-step, mixed-topic problem solving
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How to access the official MOE/SEAB information (fast)

- 1) MOE syllabus PDFs (Full SBB): G2 & G3 Mathematics Syllabuses (2020)
- 2) SEAB exam syllabus (E-Math): O-Level Mathematics (4052) 2026
- 3) SEAB exam syllabus (A-Math): O-Level Additional Mathematics (4049) 2026
- 4) SEAB index (specimen papers + other subjects/years): 2026 O-Level syllabuses list

A simple 6-week improvement plan

Week 1: Diagnose \rightarrow fix the top 3 error patterns (often factorisation, algebra steps, graphs).

Weeks 2-3: Daily micro-drills (10-20 min) + 1 mixed set weekly.

Weeks 4-5: Mixed topical timed practice (speed + method marks).

Week 6: Mock test → review → retest vour weakest 2 topics.

We want the best for our Sec 2 Maths students

- Learn from first principles (not memorised tricks).
- Build confidence by mastering core techniques before rushing.
- Train exam habits: clear working, checking, and time control.
- Keep doors open for Sec 3 choices (G2↔G3 mobility and A-Math readiness).

Need a personalised plan? WhatsApp +65 8823 1234 (3 seats per class).

Sources used: MOE Full SBB Mathematics syllabuses (G2/G3) and SEAB O-Level Mathematics (4052) & Additional Mathematics (4049) syllabuses.