



A production-ready AI platform for teaching math — live today at mathpathai.com.

WHAT MATHPATH AI IS

MathPath AI™ is a complete, production-ready math-learning platform that combines a structured curriculum, independently verified AI-generated practice, real-time conceptual AI tutoring, and educator tools in a single integrated web application. It is built for GED math today and engineered to extend beyond it. Reliable, conceptual AI for math is the hardest capability in education technology to get right — and MathPath AI is a working, independently validated implementation of it, live now.

ORIGIN — FROM GED TUTORING TO A FULL MATH PLATFORM

MathPath AI began with the founder's years volunteering as a GED math tutor — first intended as a no-charge, mission-driven resource for adults who had been failed by math. But solving the real problem — getting AI to teach math correctly and conceptually — produced something far more capable than first envisioned. GED math already spans the full foundational-to-intermediate spectrum: number sense, operations, ratios & percentages, algebra, linear & quadratic equations, functions, plane & solid geometry, data analysis, statistics, and probability. It was never a narrow test-prep tool — it was a math platform.

THE PLATFORM — LIVE TODAY

One shared infrastructure powers lessons, practice, real-time AI tutoring, and analytics — not a prototype, but a live, self-sustaining production system.

FOR LEARNERS

- Adaptive placement diagnostic
• Structured lessons + worked examples
• Real-time conceptual AI tutoring
• Tiered practice & quizzes
• Progress tracking and review

FOR TEACHERS & TUTORS

- Teach classes, groups, and individuals
• Lesson assignment & tracking
• Custom tests from the verified bank
• Per-student analytics

FOR ADMINISTRATORS

- Content-health dashboards
• AI quality monitoring
• Growth & engagement analytics
• Configuration & review queue

TWO CAPABILITIES AT THE CORE

C²AI™ — Contextual, Conceptual AI. The AI tutor knows what no general chatbot does — the exact lesson, the question the student missed, and the wrong answer they chose. It teaches the underlying concept and why the math works, not just the correct steps. Calculators are tools, not teachers.

IVQG™ — Independently Verified Question Generation. Every question is verified by three AI models across two companies before any student sees it — no model validates its own output. The result is a self-sustaining question bank that holds 99%+ audited accuracy without a manual content treadmill.

INDEPENDENTLY VALIDATED ABOVE 99%

- 99.25% question accuracy on a 400-question blind-solve audit of the live bank, with a 95% confidence interval of 97.7%–99.9% (Agresti-Coull).
• Corroborated by four further measurements (98.5%, 98.7%, 99.6%, plus an ongoing weekly automated check) — zero confirmed errors across all five audits.

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(98.5%, 98.7%, 99.6%, plus an ongoing weekly automated check) — zero confirmed errors across all five audits. © 2026 MathPath AI, LLC

- Verified by three AI models across two companies, including Google Gemini — no model grades its own work. Full methodology is in the companion Accuracy Validation Report.

SCALE ALREADY BUILT

27

Structured math lessons
(complete)

169

Math concepts tagged &
tracked

81

Bank slots (27 topics × 3 tiers)

5,000+

Active verified questions

BUILT TO EXTEND

The core IP is content-agnostic: the 81-slot structure, the IVQG™ verification pipeline, and the C²AI™ tutoring model carry to any curriculum or level. Adding a new range of math means new content flowing through the same validated pipeline — not a rebuild. SAT and ACT math sit squarely within the algebra, functions, geometry, and data/statistics the platform already teaches, and right-triangle trigonometry is in active development as the first step. The same engine is reachable to developmental and college math, K–12, workforce and adult numeracy, and other test prep (HiSET).

SELF-SUSTAINING & PRODUCTION-GRADE

- **Self-sustaining content:** the bank is checked multiple times daily — below-target slots are topped up, at-target slots refreshed, and a weekly similarity audit removes near-duplicates — with no routine manual content work.
- **Engineering quality:** 269 unit tests and 112 end-to-end browser tests passing, zero build-time type errors, error tracking and uptime monitoring across all scheduled processes.
- **Security:** all AI calls run server-side (no model keys ever reach the browser); role-based access and a session-secured API layer throughout; zero-downtime deployments.