

Medly AI's Micro-Randomised GCSE Science Trial — Higher Attainment After Four Weeks of AI Tutoring

AI in Education · Good practice · United Kingdom

Quality score: 60/100

Evidence strength: Randomised controlled trial

Summary

A four-week, individually randomised trial of 929 English GCSE Biology, Chemistry and Physics students found those using the Medly AI tutor scored significantly higher than peers doing self-directed revision (Hedges' $g=0.33$), with gains in all three sciences.

Key dimensions

Dimension	Score
Evidence of learning impact	2/3
Equity & inclusion	2/3
Transparency, ethics & data protection	2/3
Teacher capability & pedagogy	1/3
Scalability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-22

[Medly AI / University College London](#) — accessed 2026-09-22

[arXiv preprint](#) — accessed 2026-09-22

[EdTech Innovation Hub coverage](#) — accessed 2026-09-22

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