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Future of AI in Mathematics Education

Summary of Awang et al. (2025)

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Academic Insights

This summary explains how the future of education with AI is shaping mathematics teaching and learning. AI tools are increasingly used in classrooms and learning platforms. These tools support problem solving, equation handling, and visualisation tasks. The review analyses research from major academic databases. It identifies adaptive learning systems as a dominant application of AI in mathematics. The review shows that many tools prioritise speed and accuracy. Conceptual understanding often receives less attention. AI use is uneven across school and higher education levels. Many tools remain experimental and difficult to use in real classrooms. Teachers often lack guidance on selecting appropriate tools. This creates a gap between research and practice. The review concludes that AI must be aligned with clear learning goals. AI should support reasoning and explanation. Without this alignment, learning outcomes remain limited.

Apply These Now

- Select AI tools based on learning goals
- Balance automation with student reasoning

Add These in Your Lesson

- Use AI for feedback not final answers
- Ask students to explain AI steps

Avoid This Mistake

- Using AI tools to speed up answers without strengthening mathematical reasoning

Keywords

AI in mathematics education, adaptive learning, educational technology

Reference

Awang, L. A., Yusop, F. D., & Danaee, M. (2025). Current practices and future direction of artificial intelligence in mathematics education: A systematic review. *International Electronic Journal of Mathematics Education, 20*(2), em0823. https://doi.org/10.29333/iejme/16006

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