Design and Assessment of AI-Based Learning Tools

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Academic Insights

- AI tools mainly support assessment, feedback, and tutoring.

- Cognitive gains are common; skill development outcomes vary.

- Black-box AI limits deep conceptual understanding.

- Over-dependence risks surface learning.

- Transparent design improves educational impact.

Apply This Now

Prefer AI tools that explain reasoning, not just outputs.

Add This in Your Lesson

Ask students to critique AI responses.

Avoid This Mistake

Treating AI tools as pedagogically neutral.

Keywords

AI learning tools; Higher education; Systematic review

Reference

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