



## AI Literacy, Trust, and Dependency

Excellent Educator, 3(3), 7, 2026

### Academic Insights

This quantitative study examines relationships among AI literacy, trust, dependency, and 21st-century skills in 469 preservice mathematics teachers. Results show that higher AI literacy and trust are associated with increased AI dependency. This dependency negatively relates to problem-solving, critical thinking, creativity, collaboration, communication, and self-confidence. The study highlights the need for balanced AI integration that supports independent reasoning.

### Apply These Now

Encourage independent attempts before AI use.  
Frame AI as support, not replacement.

### Add These in Your Lesson

Ask learners to critique AI-generated answers.  
Use errors to deepen reasoning.

### Avoid These Mistakes

Interpreting frequent AI use as learning progress.  
Ignoring dependency risks.

### Keywords

AI literacy; AI dependency; Teacher education; Critical thinking; 21st-century skills

### Reference

Zhang, D., TanuWijaya, T., Wang, Y., Su, M., Li, X., & Damayanti, N. W. (2025). *Exploring the relationship between AI literacy, AI trust, AI dependency, and 21st century skills in preservice mathematics teachers*. *Scientific Reports*, 15, 14281. <https://doi.org/10.1038/s41598-025-99127-0>

### Suggested Citation

Excellent Educator. (2026). *AI Literacy, Trust, and Dependency*. *Excellent Educator*, 3(3), 7.