

Chapter 7

Unlocking STEM Potential: Leveraging AI to Support Multilingual Learners – Pritha G. Roy, Uma E. Sarkar, Kelly L. Knight, and William Franz Lamberti

Supporting Multilingual Learners in STEM Using AI (AI-Generated 1/31/25)

Instructions: Connect with a colleague (educator, administrator, instructional designer, etc.) via Zoom, video conference, or an in-person meeting. Use this worksheet to guide your discussion on how AI can support multilingual learners in STEM. Take notes and reflect on your evolving perspectives.

Part 1: Pre-Discussion Reflection

1. What were your initial thoughts on using AI to support multilingual learners in STEM?

2. What key takeaways did you gain from the chapter?

3. What concerns or questions do you have about AI's role in multilingual STEM education?

Part 2: Collaborative Discussion

1. How has your colleague used (or considered using) AI to support multilingual learners in STEM?

2. What challenges or barriers have they encountered?

3. What successful strategies or AI tools have they found effective?

4. How does AI align with or challenge existing teaching practices for multilingual learners?

5. What policies or institutional supports are necessary for AI integration in multilingual STEM education?

Part 3: Post-Discussion Reflection & Reassessment

1. What new insights did you gain from the discussion?

2. How has this conversation changed or reinforced your perspective on AI in multilingual STEM education?

3. What is one action step you can take to implement or further explore AI's role in supporting multilingual learners?

4. Reassessing your positionality: How have your views on AI, equity, and multilingual STEM education evolved after reading the chapter and engaging in this discussion?

Next Steps: Share your reflections with a larger community (e.g., a meeting, professional learning network, or online discussion group). Consider revisiting this worksheet after implementing a new strategy.