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9:00-10:00
Room TACOMA 2

A Practical Framework for Designing Adaptive K-12 Learning Ecosystems for the AI Era



INTRODUCTIONS

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LEARNING OBJECTIVES

1. **Describe** how educators are using AI in K-12 settings to develop industry-aligned student competencies.
2. **Identify** adaptive spatial typologies and design strategies that can help K-12 learning environments support emerging AI learning practices while maintaining essential human social connections.
3. **Assess** current learning environments for readiness to support AI-enabled pedagogy using the study's research-based framework and design principles.
4. **Facilitate** a human-centered planning process for designing future-focused learning spaces that consider the intersection of space design, pedagogical practice, and educational technologies like AI tools.



ONEder GRANT RESEARCH TEAM



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WHY DOES IT MATTER? (Context + Purpose)

AI is a disruptive technology impacting the design of instructional models... which impacts the design of learning spaces.

- Continued shifts toward self-directed, personalized learning
- More identifiable need to foster student curiosity, critical thinking, discernment, and empathy
- Risk of not adapting = environments that undermine both learning and tech integration



WHAT DID WE DO? (Research Approach)

Multi-stakeholder, mixed-methods study



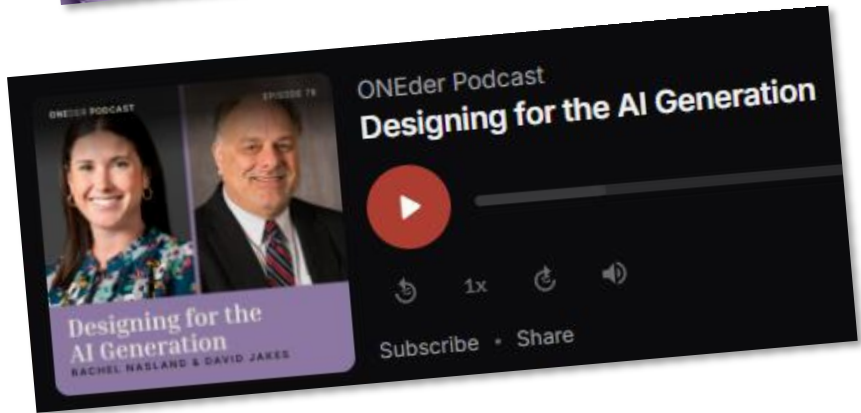
Research Questions

- 01** How is AI changing the K-12 learning experience?
- 02** What spatial strategies support AI-enabled learning?

WHERE TO LEARN MORE



Research Brief
+ Podcast



WHAT DID WE FIND? (Themes + Shifts)

AI is changing how the learning experience happens.

1. The use of AI tools raises the importance of human thinking rather than reducing it.
2. Human relationships remain the anchor of the learning experience.
3. AI shifts the learning experience from linear completion to iterative development.
4. Assessment and evidence of understanding must be reconsidered.
5. The physical learning environment becomes a more critical design lever.

“It’s going to be facilitating, it’s going to be coaching, it’s going to be reflection and more personalized interactions.”

– on the educator’s role shifting

01 SUPPORTING DEEP LEARNING WITH AI TOOLS



02 KEEPING HUMAN INTERACTION PRIMARY



03 SHIFTING THE LEARNING EXPERIENCE

Instructional models/pathways are shifting.

TRADITIONAL



AI-ENABLED



04 RECONSIDERING LEARNING ASSESSMENT

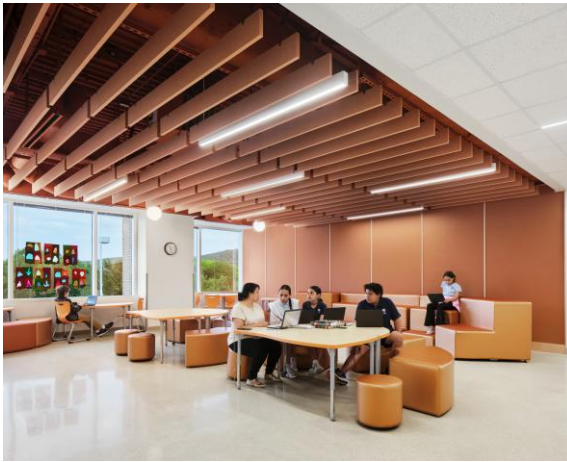


05 DESIGNING SPACES TO IMPACT LEARNING



WHAT'S THE DESIGN IMPACT OF AI? (Design Principles)

A framework for designing AI-enabled learning environments



**Regulate
Sensory Load**



**Support Critical +
Creative Thinking**



**Encourage Human
Interaction + Autonomy**



**Integrate
Technology Seamlessly**

WHAT'S NEXT? (Call to Action)

Design is the opportunity... and the responsibility

Big Idea

AI represents a structural shift, not a trend.

Challenge

If we don't adapt, we limit the transformative potential of educational AI.

Opportunity

Design environments that amplify human learning alongside AI.

“Human Connection is still so very important to all of us, and I think that’s a big part of balancing AI too”

– student voice

Q + A



THANK YOU!

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