

2026 Spring Development Day
Nebraska Methodist College
May 12, 2026

HOW WE TEACH: LEVERAGE TECHNOLOGY- ENHANCED STRATEGIES

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Learning Objectives

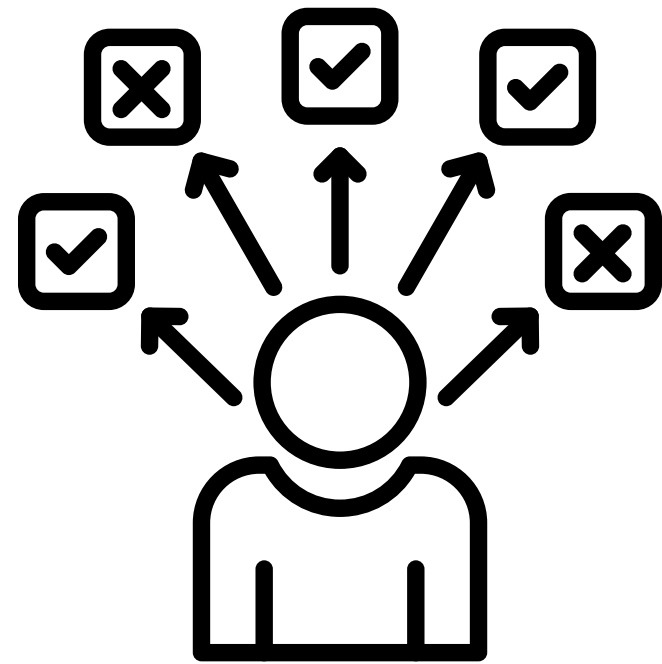
- Describe how interactive engagement tools (e.g., Kahoot and others) support active learning and formative assessment.
- Evaluate how to select appropriate tools and question types to align with specific instructional goals and learning outcomes.
- Implement at least one technology enhanced strategy to increase student participation and gauge understanding in real time.
- Reflect on how technology can support inclusive and flexible learning environments across multiple modalities.

Why Does Engagement Matter?





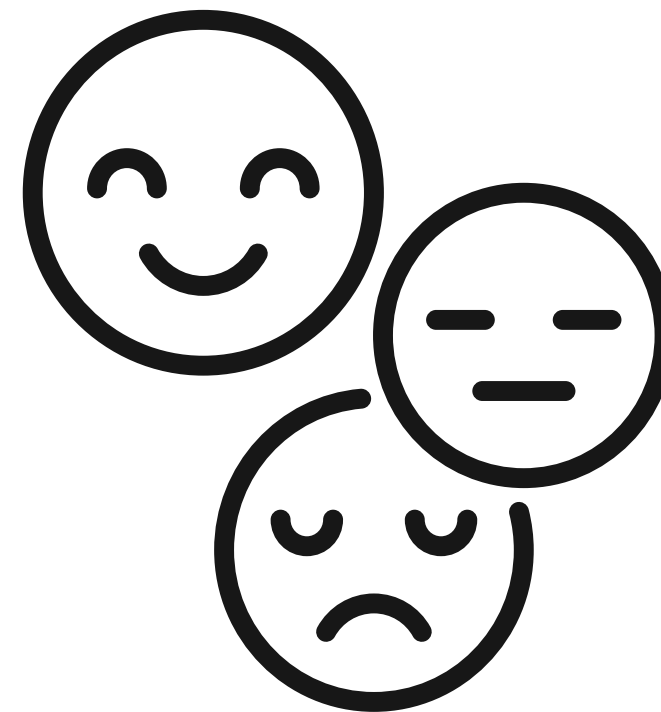
ENGAGEMENT THEORY



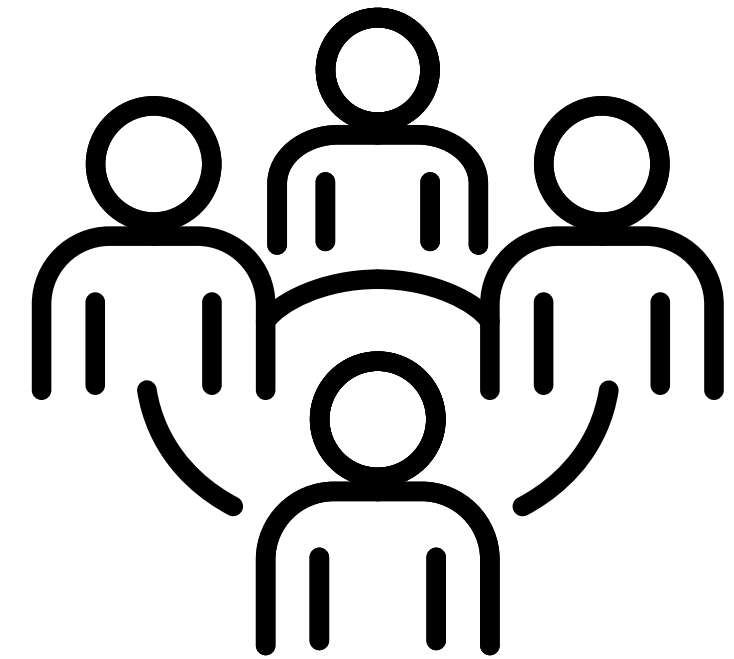
BEHAVIORAL



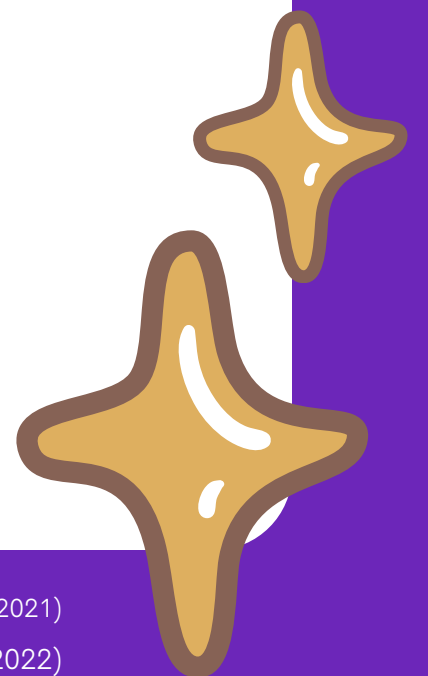
COGNITIVE



AFFECTIVE/
EMOTIONAL

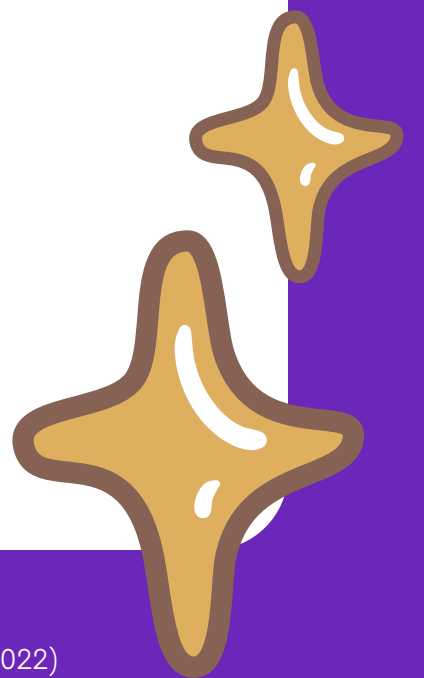


SOCIAL



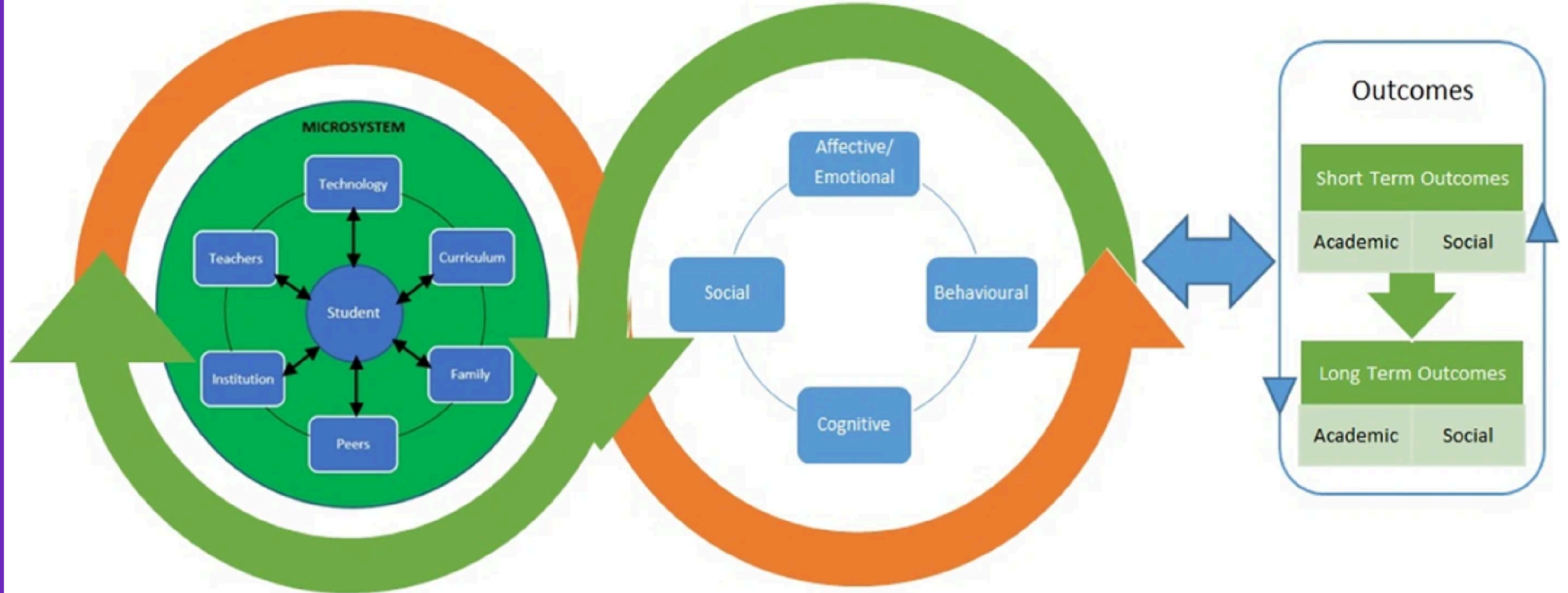


According to Bond & Bergdahl,
2022, engaged learners are those
who take actions that support
learning and are directly influenced
by teaching methods, technologies,
and educational modes.



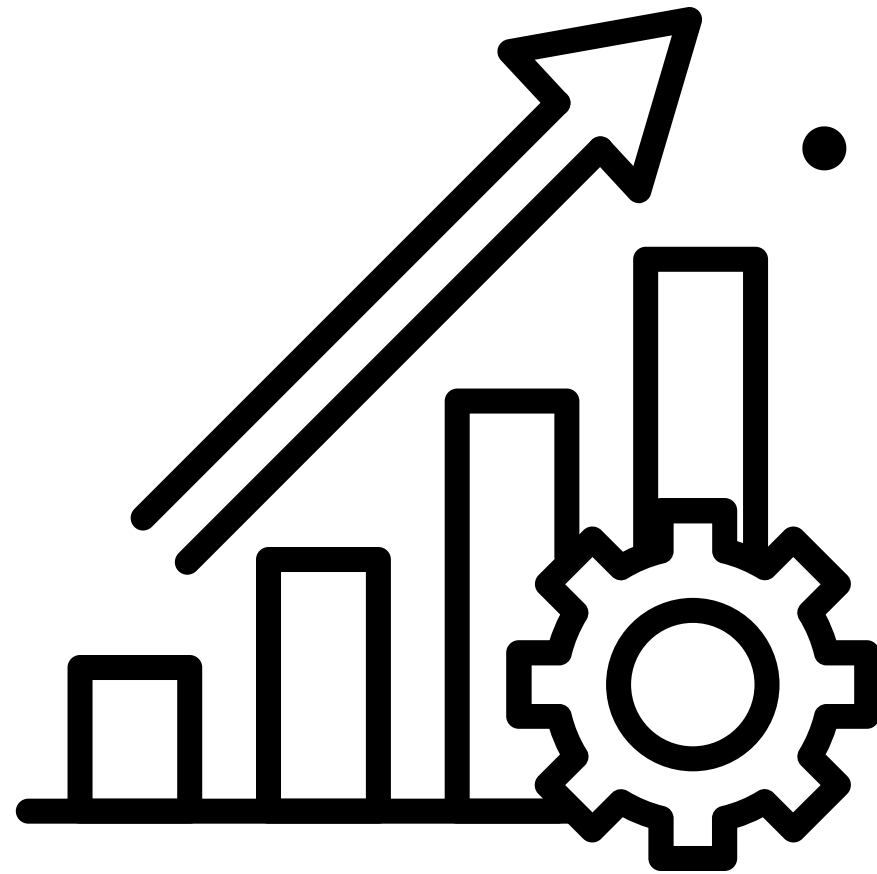
Technology-Enhanced Learning Environment

Student Engagement



Student Engagement in Digital Learning Framework, adapted from Bond and Bedenlier (2019, p. 8)

Academic Outcomes



- IMPROVED
 - Learning outcomes
 - Critical thinking skills

Engagement Indicators

Behavioural engagement	Cognitive engagement	Emotional engagement	Social engagement
Participation/involvement	Critical thinking	Enjoyment	Interaction with peers
Time on task	Self-regulation	Interest	Interaction with educators
Attending live lessons	Focus/concentration	Satisfaction	Interaction with technology
Assuming responsibility	Deep learning	Positive attitude towards learning	Asking for help
Effort	Self-efficacy	Sense of wellbeing	Turn-taking

Disengagement Indicators

Behavioural disengagement	Cognitive disengagement	Emotional disengagement	Social disengagement
Task incompleteness	Confusion	Boredom	Decreased interaction
Absence	Apathy	Anger	Social isolation/withdrawal
Lurking	Unfocussed/inattentive	Dislike	Challenging interactions
Time off task	Lack of regulation	Disinterest	Ignoring others
Drop out	Distracted	Frustration	Giving up on social inclusion

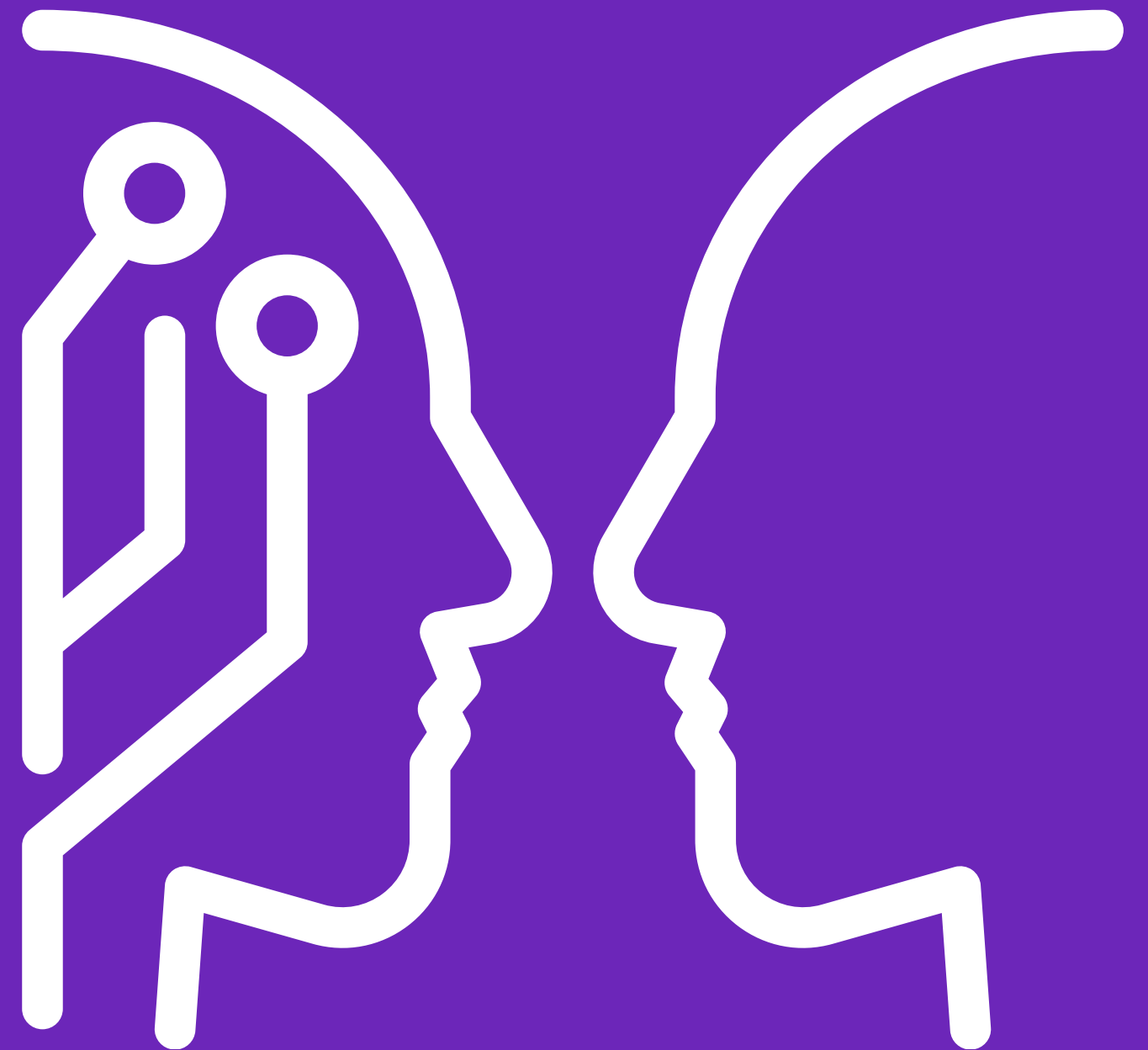
Social Outcomes



- Deeper sense of belonging
- Related to persistence, retention, wellbeing, and future success

Engagement that actually INTERACTS

- Immediate feedback supports prolonged engagement and intrinsic motivation
- Allows learners to take educational risks in a safe way
- Can reduce social isolation in neurodivergent learners



How Do You Implement?

TPACK

(Technological Pedagogical Content Knowledge)

- FRAMEWORK of KNOWLEDGE needed to effectively implement technology enhanced strategies
- Understand "how we plan"

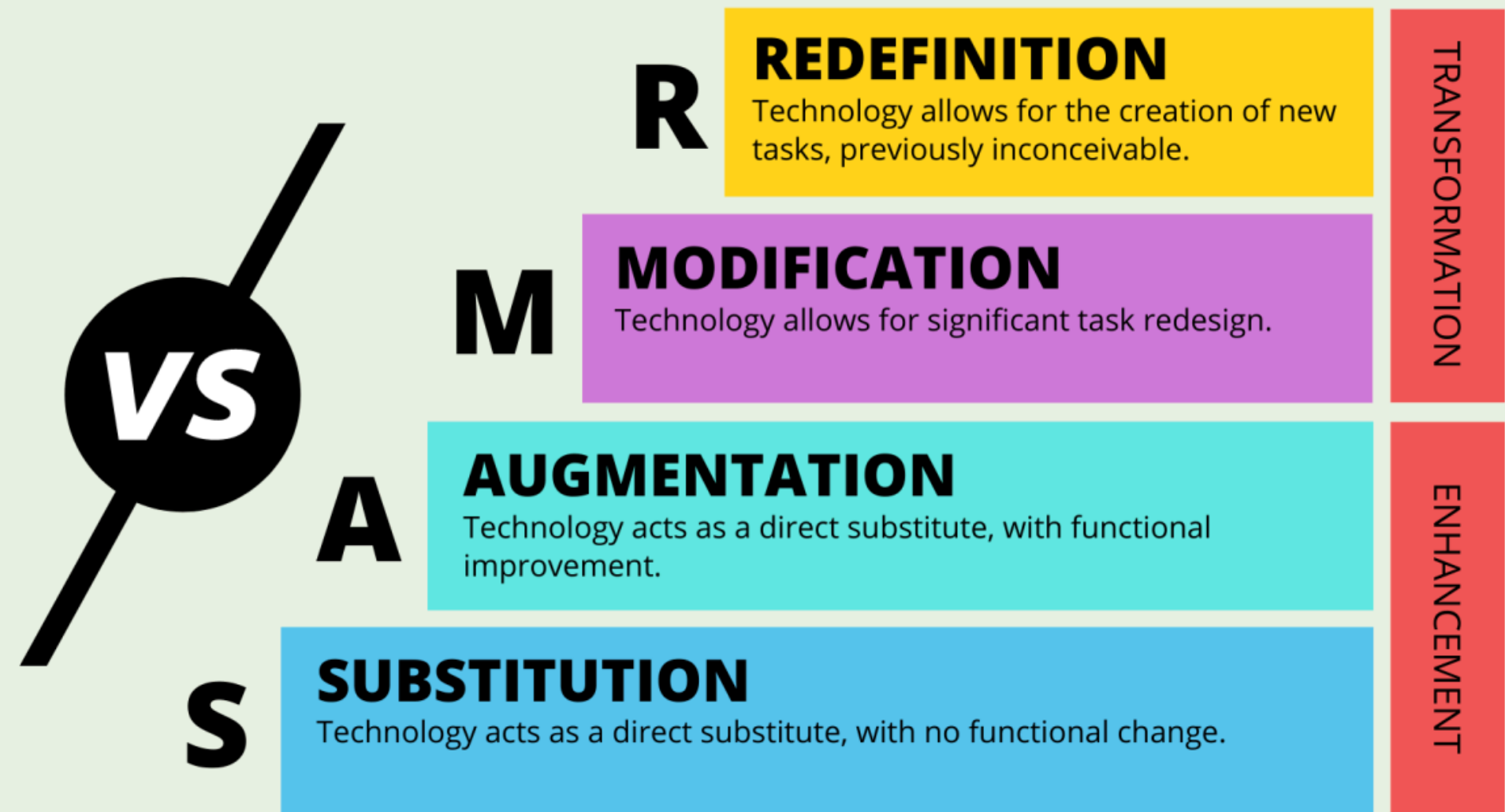
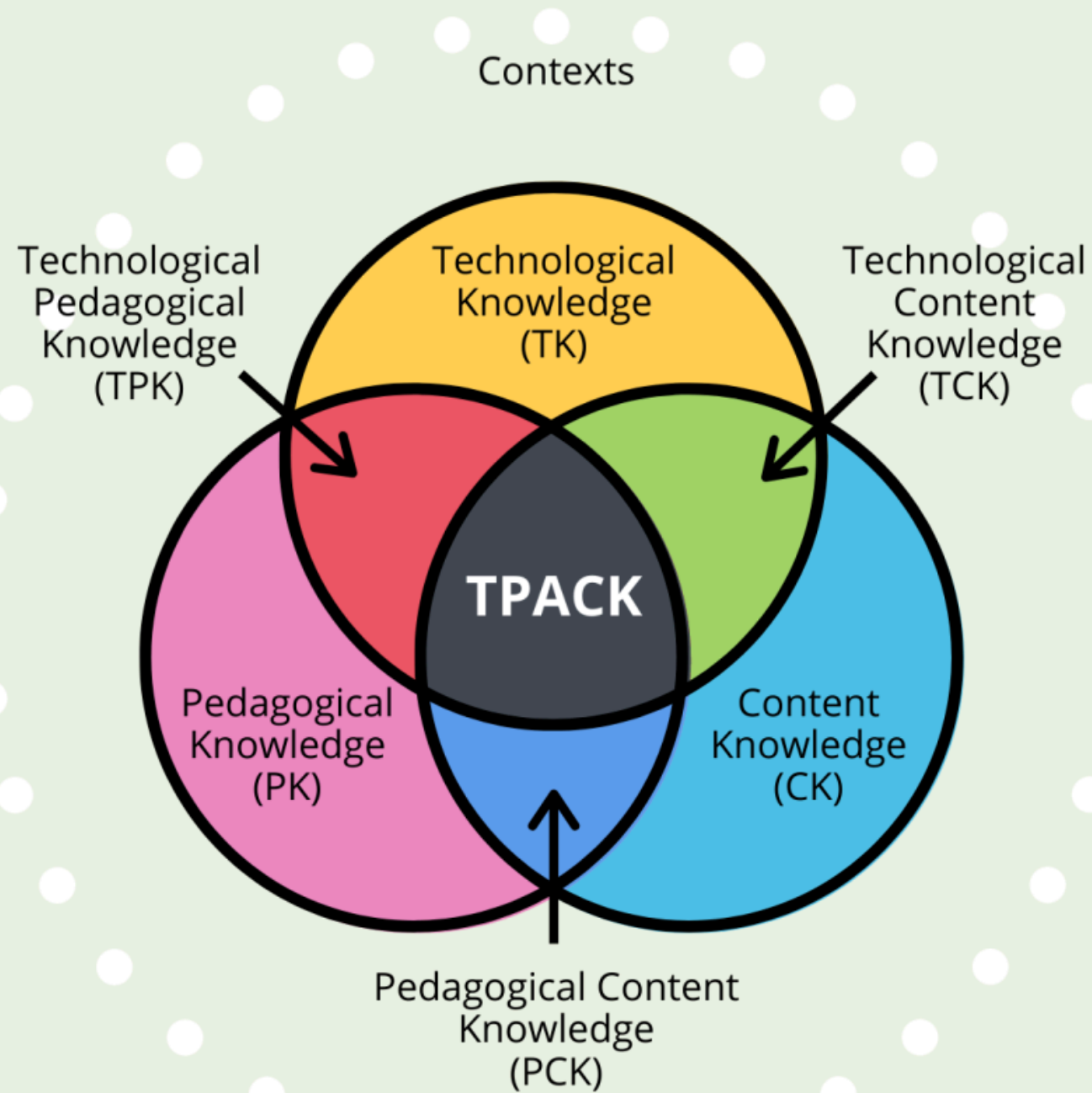
(Stanford University, n.d.)

SAMR

(Substitution, Augmentation, Modification, Redefinition)

- LEVELS of INTEGRATION for technology utilization for classroom activities/assessments
- Guide "how we teach"

(Kurt, 2023)

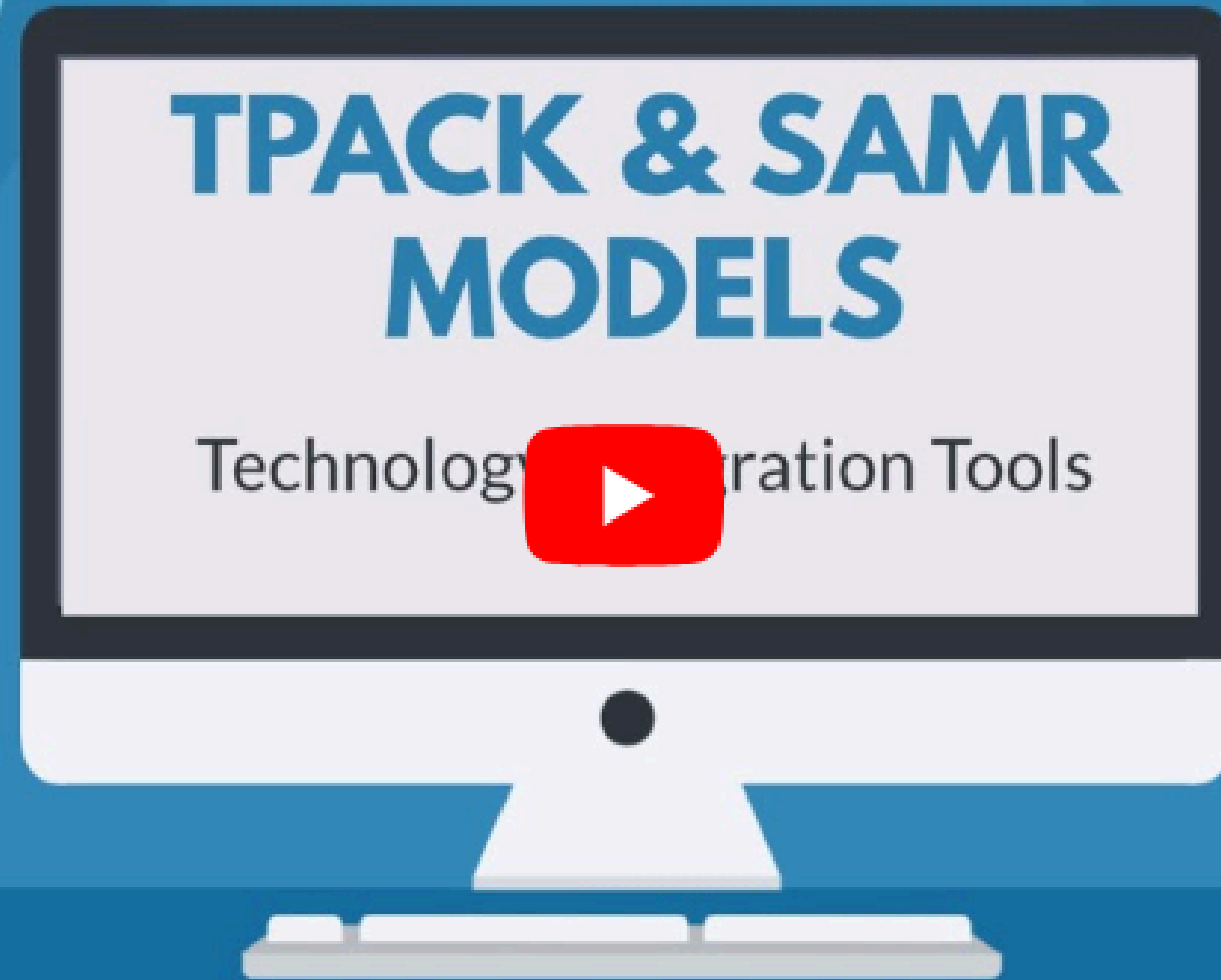


@edtechclass



TPACK and SAMR Presentation

Julie Blackwell



TPACK & SAMR MODELS

Technology Integration Tools



Watch on  YouTube

Software Examples

- Kahoot!
 - Synchronous, asynchronous, courses, embed media
- Mentimeter
 - Integrates with PowerPoint
- EdPuzzle
 - Questions on YouTube videos, integrates with LMS
- WeVideo
 - Add questions to videos, podcasts and GIFs you create

What Question Style to Choose? What fits your objectives?

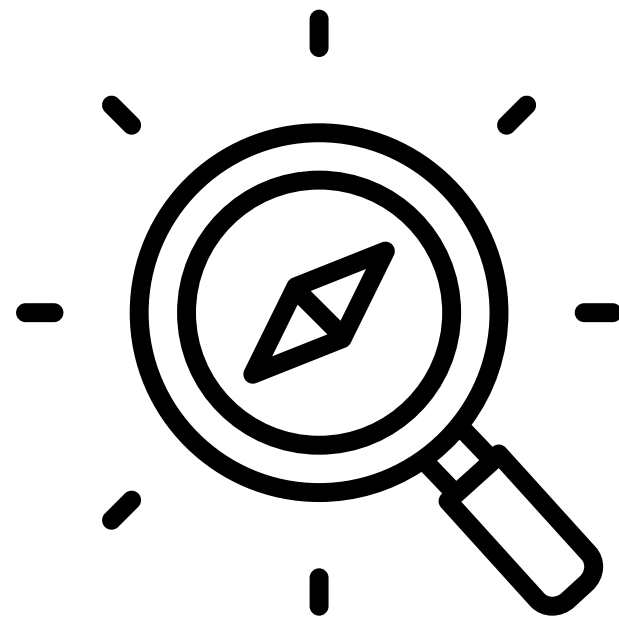
- For Recall & Higher Order Thinking:
 - Quiz (multiple choice or multi-select), T/F, Type answer
- For Sequencing:
 - Puzzle
- Image identification:
 - Pin answer
- Specific value:
 - Slider
- Opinion:
 - Poll, Scale (Likert or 0-10), Drop pin, Word cloud, Open-ended

Kahoot! Specific Research

- Reduced stress and anxiety, improved self-efficacy and academic achievement (Alsswey & Malak, 2024)
- Improved knowledge retention, motivation, and attitude toward learning (Özdemir, 2024)
- Can help predict exam performance and identify at-risk student (Garza et al., 2023)
- Develops and enhances digital and pedagogical skills of instructors (Barragán-Pulido et al., 2023)

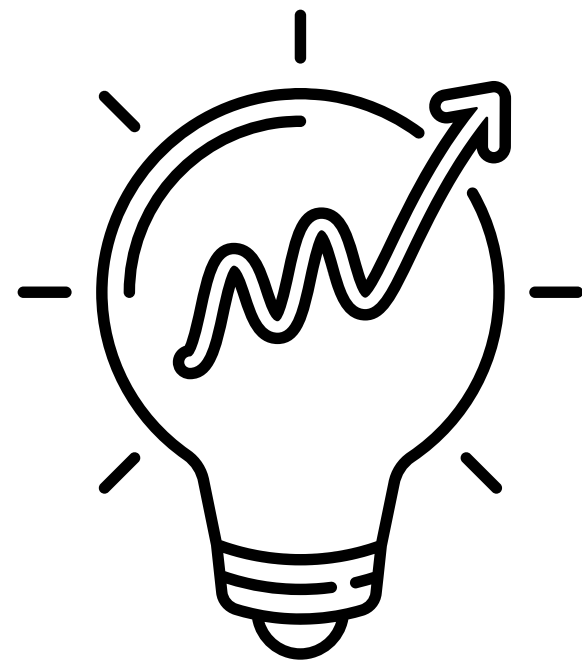


ADVANTAGES



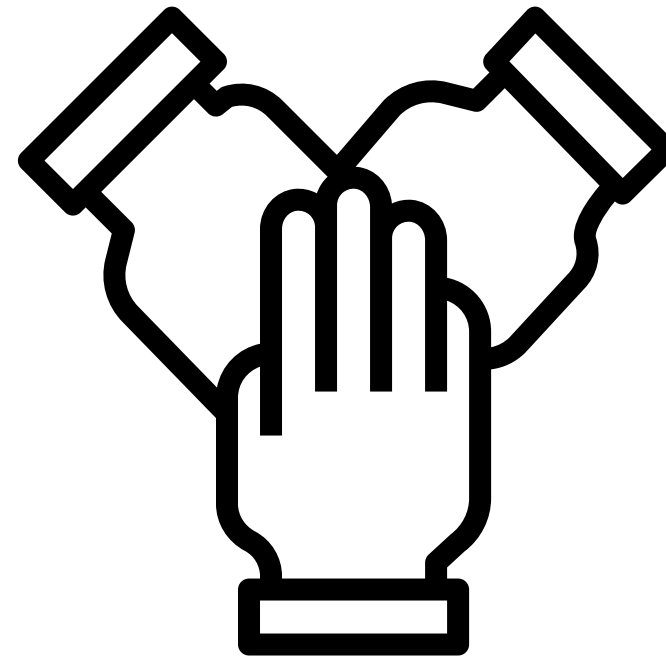
DISCOVER

Work
Smarter



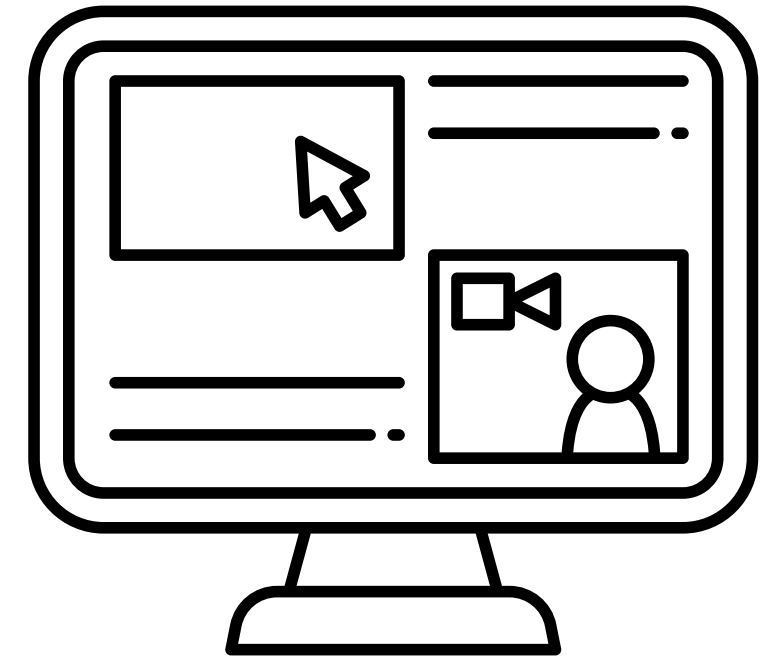
CREATIVITY

Innovative
Design



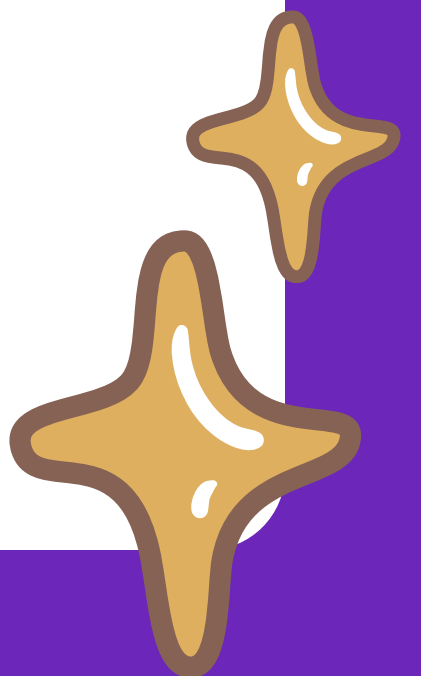
TEAMWORK

Collaborative
Processing

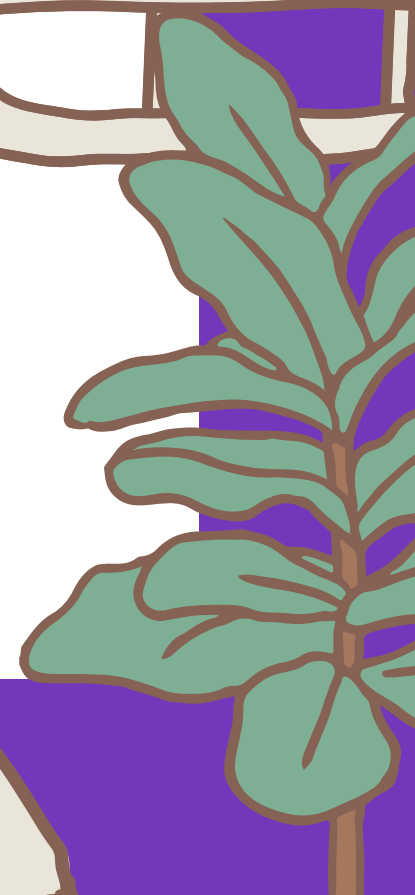
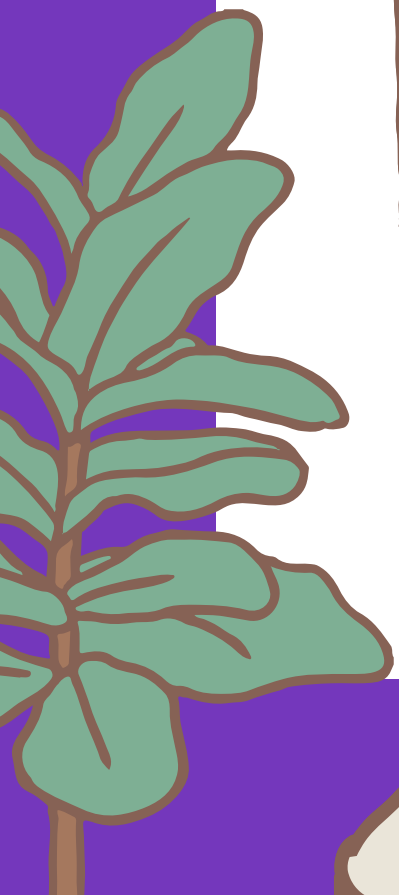
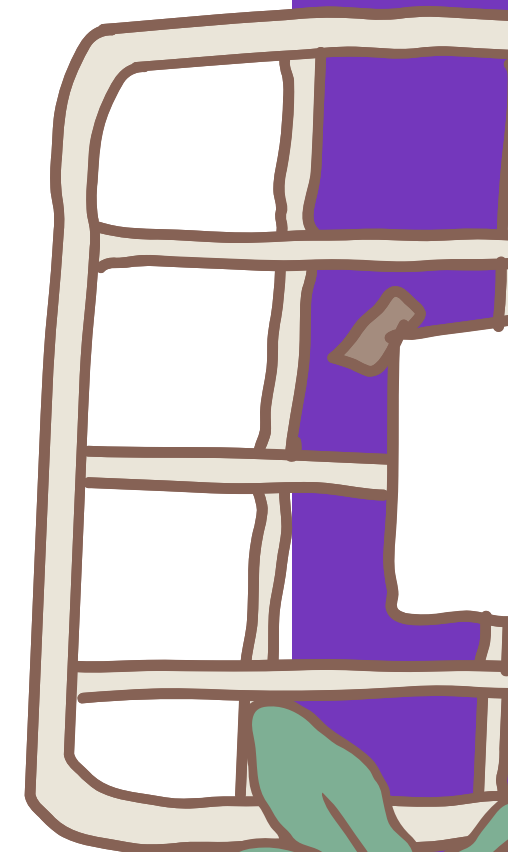
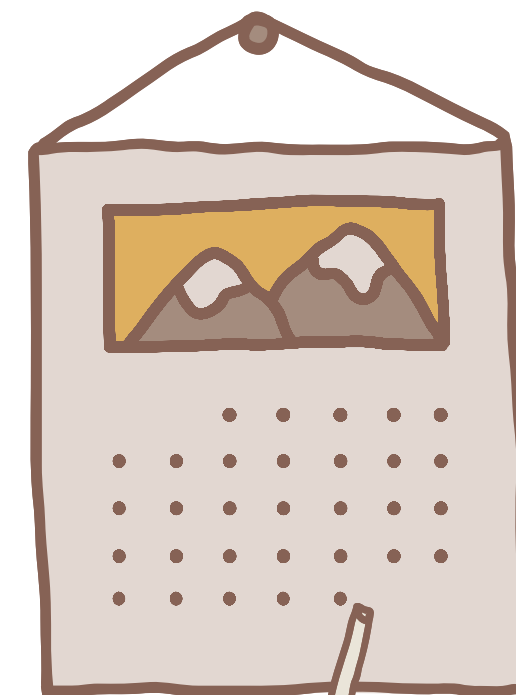
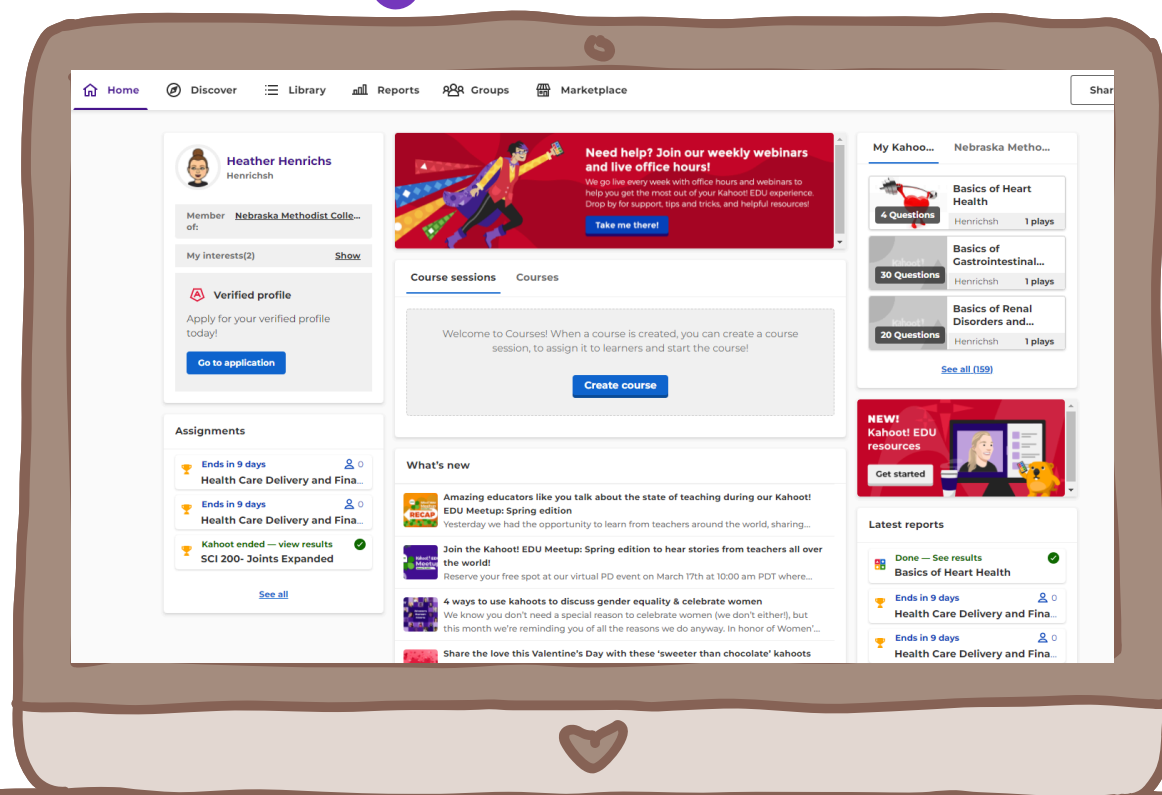


COURSES

Go
Beyond!

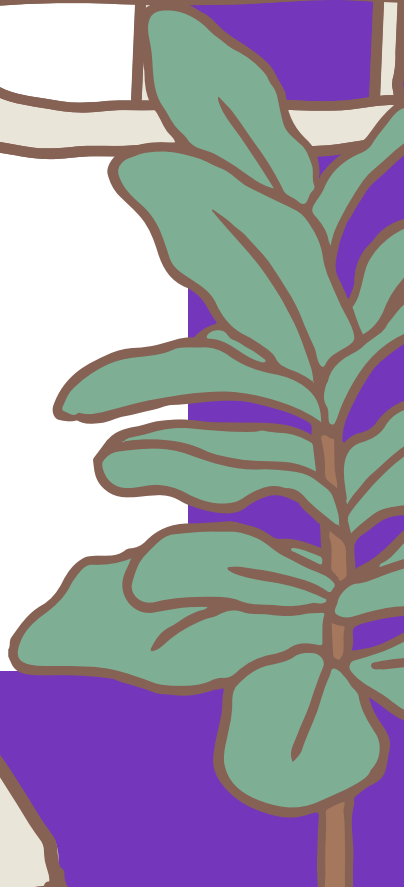
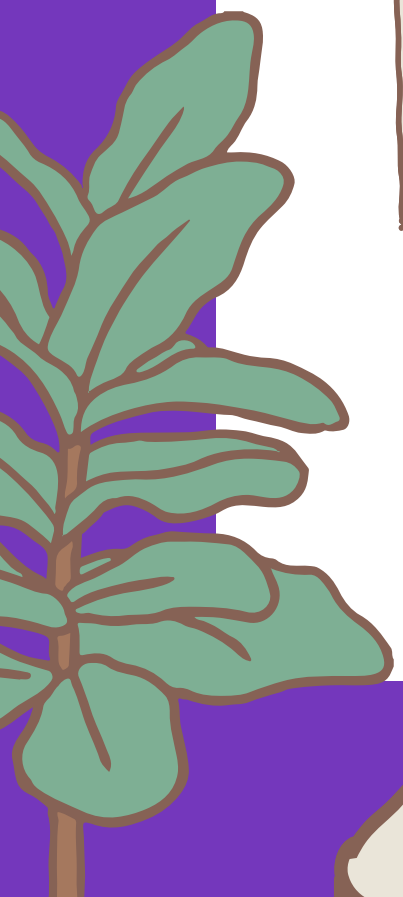
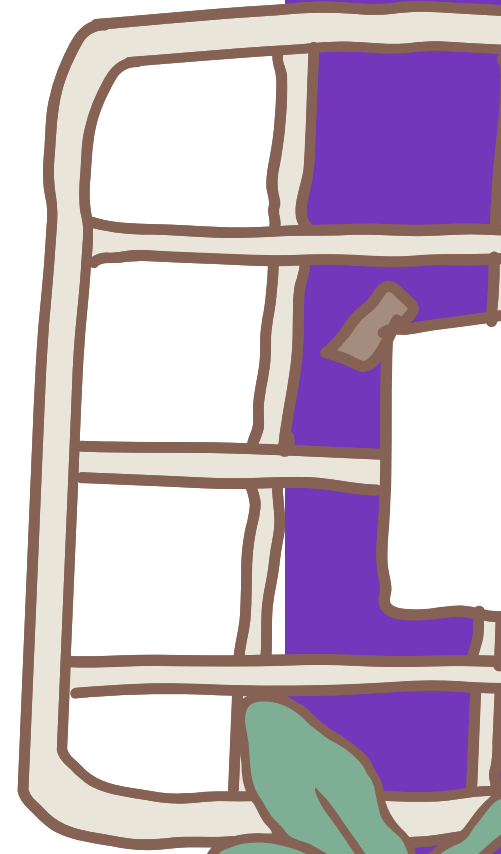
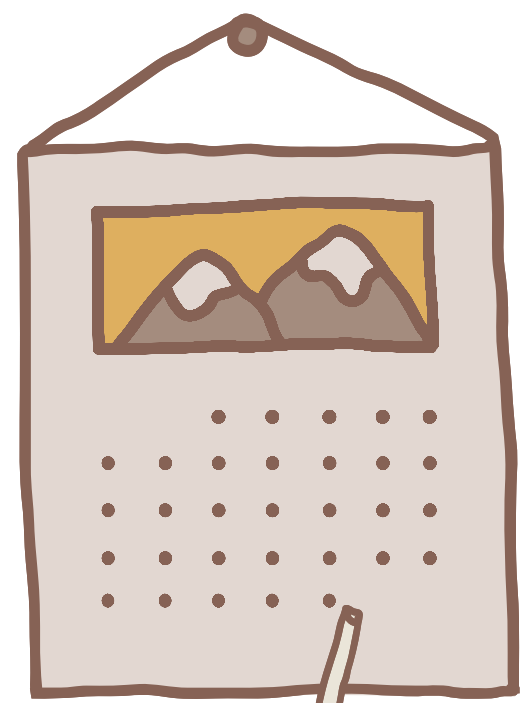
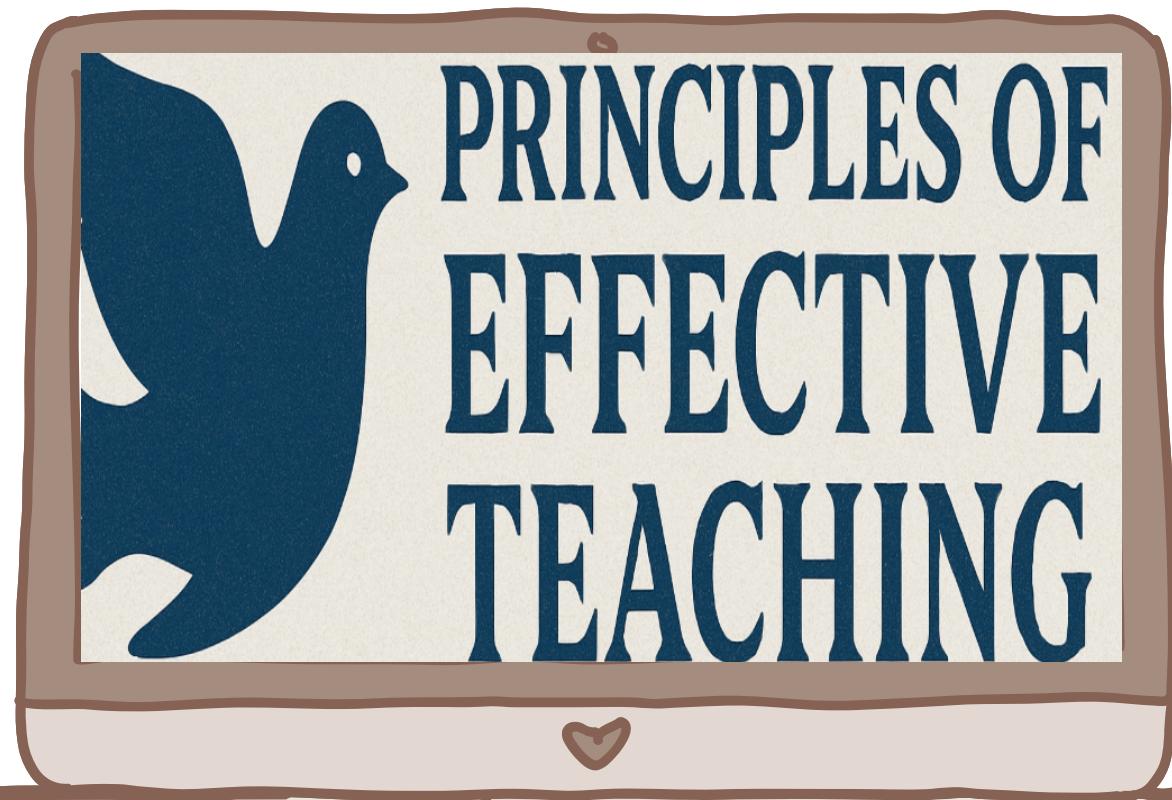


Ready to Explore?



Thank You!

What questions do you have?



Session Feedback (2-3 mins)



References:

- Alsswey, A., & Malak, Malakeh. Z. (2024). Effect of using gamification of “Kahoot!” as a learning method on stress symptoms, anxiety symptoms, self-efficacy, and academic achievement among university students. *Learning and Motivation, 87*, 101993. <https://doi.org/10.1016/j.lmot.2024.101993>
- Armstrong, R. L. (2025). How can technology support young people’s mental health and wellbeing? Use of technology in education to support neurotypical and neurodiverse students. *Mental Health and Digital Technologies, 2*(2). <https://doi.org/10.1108/mhdt-01-2025-0005>
- Barragán-Pulido, S., Barragán-Pulido, M. L., Alonso-Hernández, J. B., Castro-Sánchez, J. J., & Rabazo-Méndez, M. J. (2023). Development of students’ skills through gamification and serious games: An exploratory study. *Applied Sciences, 13*(9), 5495. <https://doi.org/10.3390/app13095495>
- Bergdahl, N., & Bond, M. (2021). Negotiating (dis-)engagement in K-12 blended learning. *Education and Information Technologies, 27*(2). <https://doi.org/10.1007/s10639-021-10714-w>
- Bergdahl, N., Bond, M., Sjöberg, J., Dougherty, M., & Oxley, E. (2024). Unpacking student engagement in higher education learning analytics: a systematic review. *International Journal of Educational Technology in Higher Education, 21*(1). <https://doi.org/10.1186/s41239-024-00493-y>
- Bond, M., & Bedenlier, S. (2019). Facilitating student engagement through educational technology: Towards a conceptual framework. *Journal of Interactive Media in Education, 2019*(1), 1–14. <https://doi.org/10.5334/jime.528>
- Bond, M., & Bergdahl, N. (2022). Student engagement in open, distance, and digital education. *Handbook of Open, Distance and Digital Education, 1–16*. https://doi.org/10.1007/978-981-19-0351-9_79-1
- EdTech Classroom. (2021, June 30). *All about TPACK: A teacher’s guide to the TPACK tech integration model*. EdTech Classroom. <https://edtech-class.com/2021/06/30/all-about-tpack-a-teachers-guide-to-the-tpack-tech-integration-model/>
- Garza, M., Oliván, S., Monleón, E., Cisneros, A.I., García-Barrios, A., Ochoa, I., Whyte, J., & Lamiquiz-Moneo, I. (2023). Performance in Kahoot! activities as predictive of exam performance. *BMC Medical Education, 23*(1). <https://doi.org/10.1186/s12909-023-04379-x>
- Godsk, M., & Møller, K.L. (2024). Engaging students in higher education with educational technology. *Education and Information Technologies, 30*. <https://doi.org/10.1007/s10639-024-12901-x>
- James, W., Oates, G., & Schonfeldt, N. (2024). Improving retention while enhancing student engagement and learning outcomes using gamified mobile technology. *Accounting Education (London. Print), 34*(3), 1–21. <https://doi.org/10.1080/09639284.2024.2326009>
- Kurt, D. S. (2023). *SAMR Model: Substitution, Augmentation, Modification, and Redefinition*. Educational Technology. <https://educationaltechnology.net/samr-model-substitution-augmentation-modification-and-redefinition/>
- Nkomo, L. M., Daniel, B. K., & Butson, R. J. (2021). Synthesis of student engagement with digital technologies: A systematic review of the literature. *International Journal of Educational Technology in Higher Education, 18*(34), 1–26. <https://doi.org/10.1186/s41239-021-00270-1>
- Özdemir, O. (2024). Kahoot! game-based digital learning platform: A comprehensive meta-analysis. *Journal of Computer Assisted Learning, 41*(1). <https://doi.org/10.1111/jcal.13084>
- Rotar, O. (2025). Beyond technology tools: Supporting student engagement in technology enhanced learning. *Education Sciences, 15*(12), 1617. <https://doi.org/10.3390/educsci15121617>
- Sajja, R., Sermet, Y., Fodale, B., & Demir, I. (2025). *Evaluating ai-powered learning assistants in engineering higher education: Student engagement, ethical challenges, and policy implications*. ArXiv.org. https://arxiv.org/abs/2506.05699?utm_source=chatgpt.com
- Stanford University. (n.d.). *Technology Integration Framework | Teaching Commons*. Teachingcommons.stanford.edu. <https://teachingcommons.stanford.edu/teaching-guides/foundations-course-design/theory-practice/technology-integration-framework>
- Thomas, M. B., Muscat, A., Zuccolo, A., Luguetti, C. N., & Watt, A. (2025). Navigating pedagogical innovation in higher education: Education academics’ experiences with active and inquiry-based learning in intensive teaching. *Innovative Higher Education, 50*. <https://doi.org/10.1007/s10755-025-09807-y>
- Wang, M.-T., Fredricks, J., Ye, F., Hofkens, T., & Linn, J. S. (2017). Conceptualization and assessment of adolescents’ engagement and disengagement in school. *European Journal of Psychological Assessment, 35*(4), 1–15. <https://doi.org/10.1027/1015-5759/a000431>