

CETL Guide: Active Learning & Engagement

General Pedagogy Articles

[Active Learning](#) by Cynthia J. Brame, Vanderbilt University Center for Teaching

[Less Content, More Application Challenge](#) By Inara Scott

[Using Playlists to Differentiate Instruction](#) by Jennifer Gonzalez, Cult of Pedagogy

[Playlists: A Path to Personalized Learning](#) by Dr. Catlin Tucker

[Constrained Choices & Critical Thinking](#) by Bill Roberson and Brian O'Dwyer, EDUCAUSE



STEM Specific Pedagogy

[The Soul of My Pedagogy: A biologist teaches students to believe they can be better than they ever imagined](#) by Bryan Dewsbury, Scientific American

[Proof Points: College students often don't know when they're learning: Harvard experiment reveals the psychological grip of lectures](#) by Jill Barshay, The Hechinger Report

[Science exams don't have to be demoralizing: A practical guide](#) by Katie Clements and Cynthia J. Brame, Vanderbilt University Center for Teaching

[Beyond the Biology: A Systematic Investigation of Noncontent Instructor Talk in an Introductory Biology Course](#) by S. B. Seidel et al. (2017), CBE-Life Sciences Education, 14(4).

[Being Human in STEM](#) (resources and activities)

[Deep teaching in a college STEM classroom](#) by B. M. Dewsbury (2020), *Cult Stud of Sci Edu*, 15.

[Structure Matters: Twenty-One Teaching Strategies to Promote Student Engagement and Cultivate Classroom Equity](#) by K. D. Tanner (2017), CBE-Life Sciences Education, 12(3).

Active Learning Activities

[Choice Boards](#), [Digital Choice Boards](#), & [Learning Menus](#)

[Hexagonal Thinking](#)

[Classroom Jeopardy](#)

[Microlectures](#)

[Community Building Activities](#) (Equity Unbound)

[Classroom Assessment Techniques \(CATs\)](#) – formative

[Project Zero's Thinking Routine Toolbox](#) – strategies to scaffold and support student learning

[FigJam](#) – Jamboard alternative, virtual whiteboard

[Miro](#) – Jamboard alternative

[Tiki Toki](#) – interactive timeline maker

Inclusive Teaching

[InclusifiED](#) (Dr. Hogan and Dr. Sathy's website)

[Inclusify Your Teaching w/ Dr. Hogan & Dr. Sathy](#) (Teaching for Student Success podcast)

[Deep Teaching w/ Dr. Bryan Dewsbury](#) (Teaching for Student Success podcast)

[Creating Inclusive College Classrooms](#) by Shari Saunders & Diana Kardia, University of Michigan CRLT

[How to create mnemonics and finally remember students' names](#) by Pooja K. Agarwal, Ph.D., [Retrieval Practice](#)

[Increasing Inclusivity in the Classroom](#) by Andrew Greer, Vanderbilt University Center for Teaching

[Teaching for Student Success Podcast](#) – researched-based ideas from inclusivity to ungrading to UDL

