

Creating an Equity-Minded Classroom in Transfer-Level Mathematics



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Active Learning Classrooms

Harvard

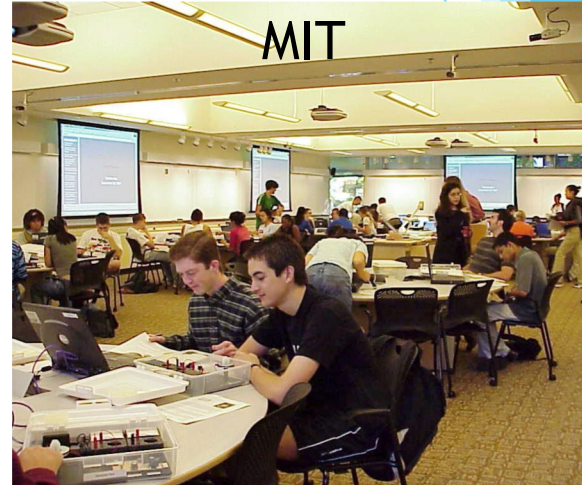


- SCALE-UP: Student-Centered Active Learning Environment with Upside-Down Pedagogies (NCSU)
- TEAL: Technology-Enabled Active Learning (MIT)
- TILE: Spaces to Transform, Interact, Learn, Engage (UIOWA)

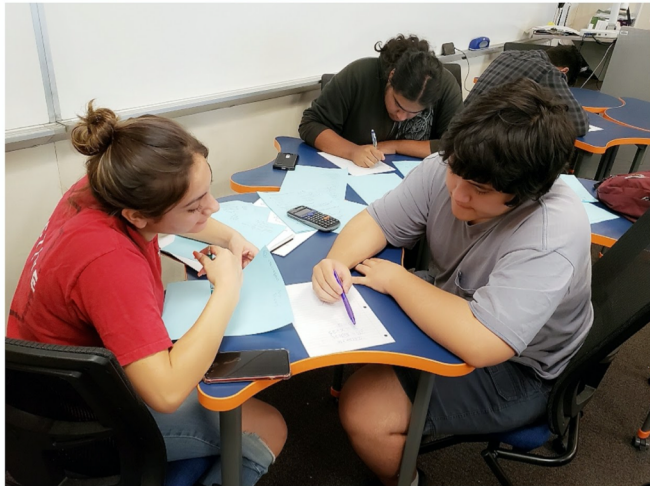
UC Berkeley

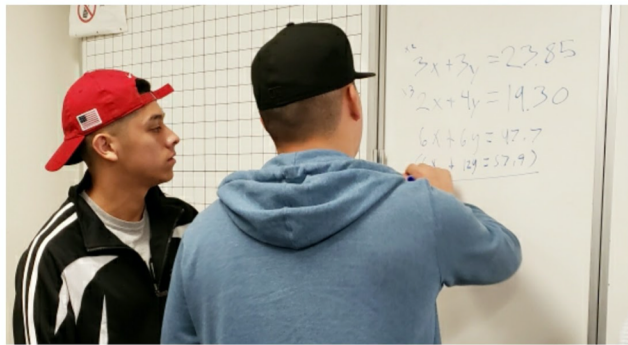
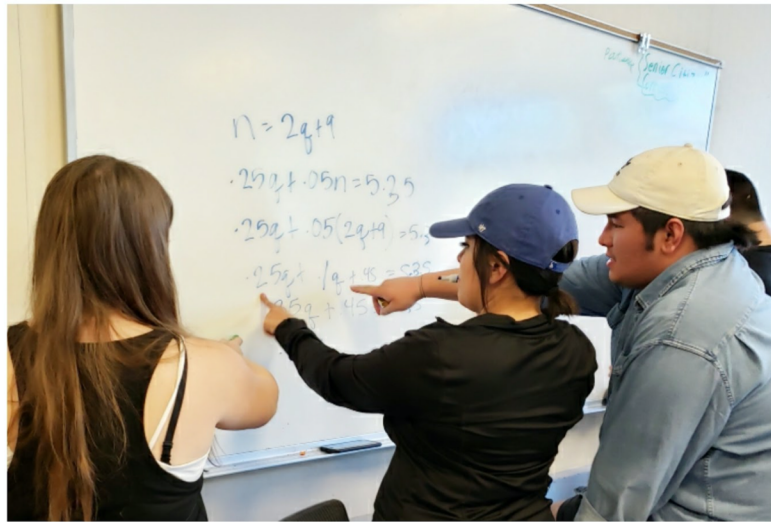
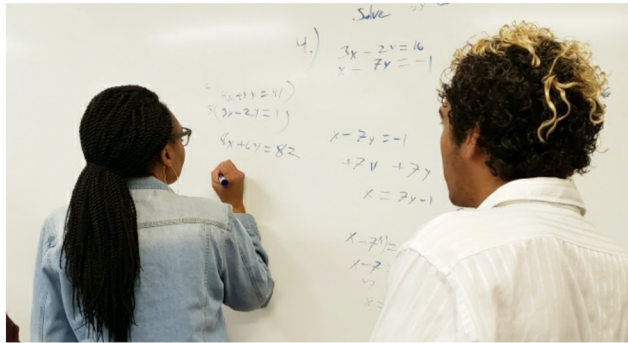
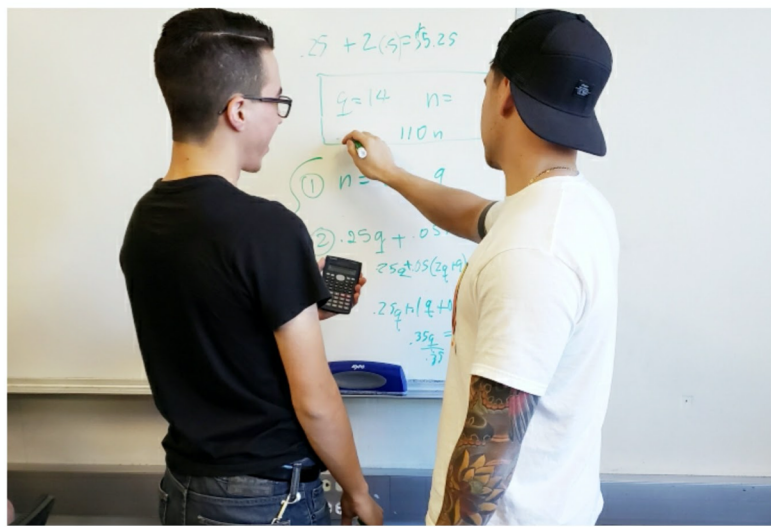
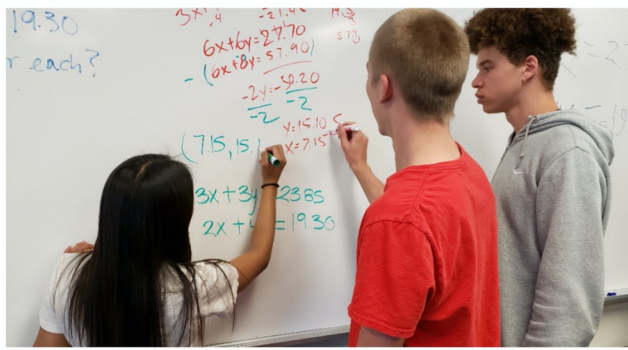


MIT



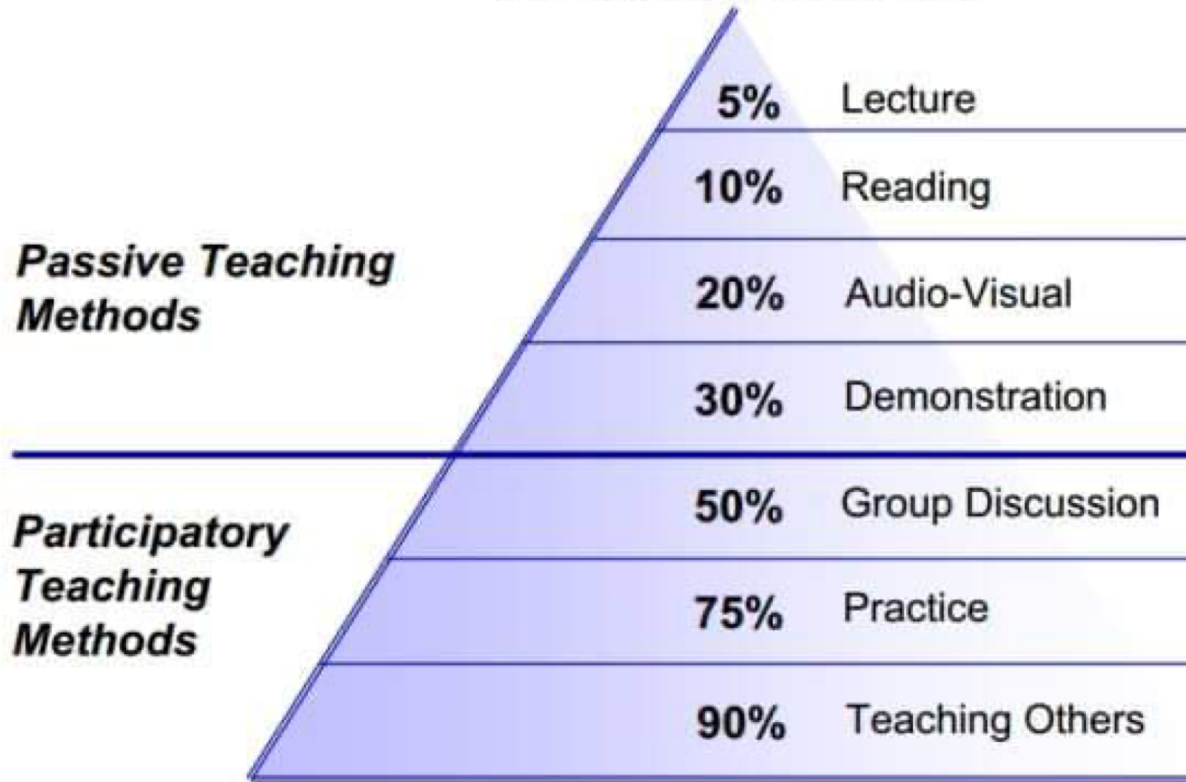
Think-Pair-Share







Average Retention Rates



*Adapted from National Training Laboratories. Bethel, Maine

Equity-Minded Classroom

- A large growing body of evidence shows that students perform better in active learning environments than in the traditional lecture (Freeman et al., 2014).
- Providing constant opportunities for students to discuss in a collaborative, low-pressure, environment has huge educational gains for:
 - Women (Lorenzo, Crouch, & Mazur, 2006)
 - Minorities (Prezler, 2014)
 - Low-Income (Haak et al., 2011)
 - First-Generation College Students (Eddy & Hogan, 2014)

