

Equitable Inquiry- Oriented Teaching

Addressing the elephant in the room

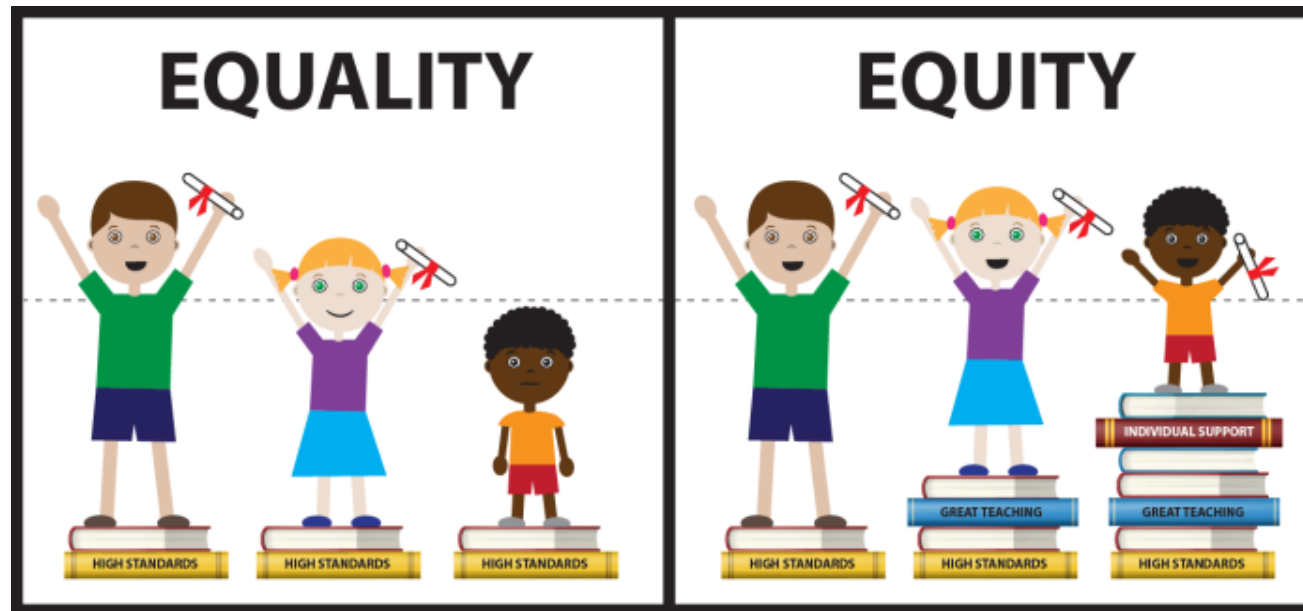
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Think-Pair-Share:

If you were to observe a classroom, what evidence would you look for to decide if instruction provided all students **equitable** access to learning opportunities?

What is Equity (in Education)?

- › “...a fair distribution of opportunities to learn or opportunities to participate” (Esmonde, 2009, p.1010)
- › What is the difference between *Equity* and *Equality*?

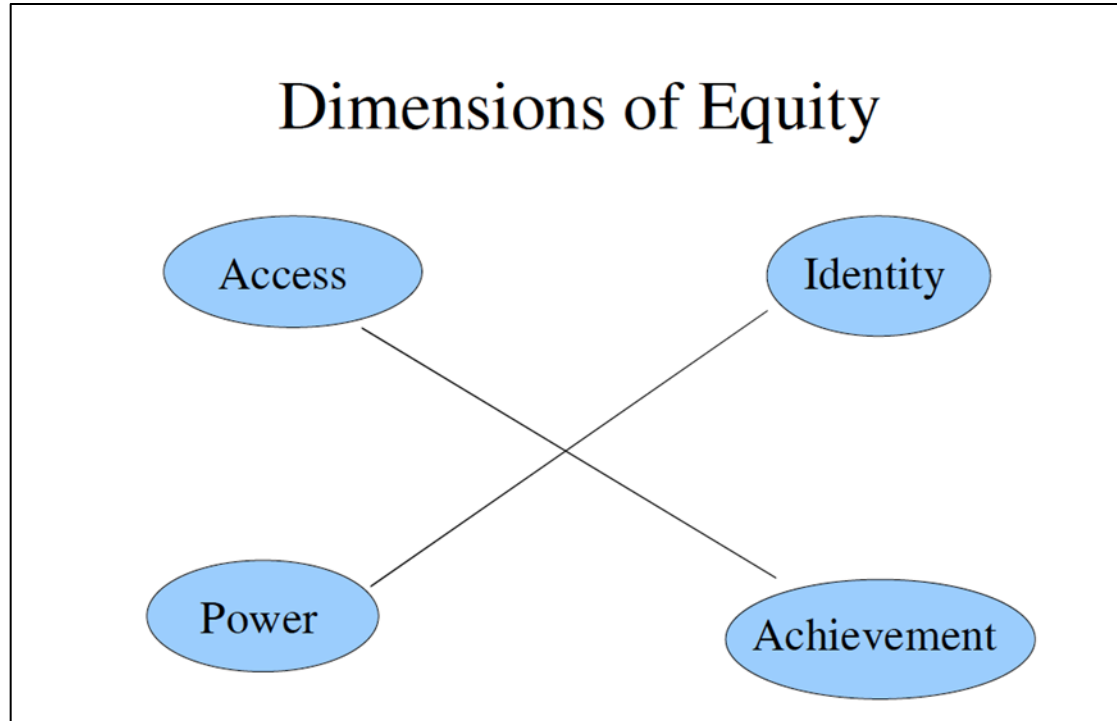


What do WE mean by equity?

Equitable instruction aims to...

- › “...understand and mitigate systemic differences in ways that people experience and are afforded educational opportunities, particularly differences that privilege one group over another (Gutiérrez 2002, 2013).” (Adiredja & Andrews-Larson, 2017)

Dominant and Critical Conceptions of Equity



- › Narratives about access and achievement tend to dominate discourse about equity
- › One might think of access and achievement as symptoms of inequity
- › Power and identity offer insight into underlying mechanisms of inequity (Gutiérrez, 2009, p. 6)

π Narrowing in on equity issues in your classroom

Considering the students YOU are likely to have in your classroom, what **barriers** to equitable learning opportunities might exist with regard to:

- › Whole class discussion?
- › Small group work?
- › Homework and/or course policies?

What strategies might help remove those **barriers**?



And now some video! What do you notice?

We're going to watch video of four clips that represent common instructional scenarios:

- › Task set-up (before students work on task in small groups): 0:00-3:45
- › Small group work (without instructor talking with group): 18:30-21:30
- › Small group work (while instructor talks with group): 28:45-31:08
- › Whole class discussion (to touch base partway through SGW) 37:50-45:45

Disclaimer: This video was not selected because it was perfect (there is no such thing), but rather because it is a good representation of an instructor using the materials for the first time while also making informed efforts to make her teaching as equitable as possible.

Setting the Environment

- › Carefully choose tasks that show students they are “smart and necessary to the group” (Esmonde, 2009)
- › Explicitly providing roles to students can shift positioning of mathematical authority during group discussions
 - Especially for racial minorities, women, working-class students (or any combination of the three)
- › Assessments should support group collaboration

Considerations for forming small groups

POSSIBLE BARRIERS

- › Who is contributing
 - Are group discussions dominated by the pre-dominant subgroup of the class?
- › Passive participants
 - “participants all believe that some group members are more capable than others” (Esmonde, 2009, p. 1022)

POSSIBLE SOLUTIONS

- › Create heterogenous groups
 - But attempt to avoid isolating members of non-dominant groups
 - › “...students who are positioned as the more competent learners guide the group’s work while others wait to be told what to do” (Esmonde, 2009, p. 1024)
- › Active Structuring
 - Instructors need to “structur[e] group composition so that students interact with one another productively” (Esmonde, 2009, p. 1024)

Strategies: Broadening Participation in WCD

Strategies for “cold-calling”

- › BRAINSTORM (pre-task): Explicitly ask **everyone** to have either an idea of what they might do to start or a clarification question about the task
- › LISTEN TO PEERS (mid- or post-task): Explicitly warn students you will randomly select a student to re-explain the idea shared by a presenter OR ask them a question

Times I would NOT “cold-call”

- › PRESENTATION (mid- or post-task): Use small group work time to hear ideas students have and identify productive ideas worth sharing in whole group.
 - You can use this opportunity to try to identify times when quieter students have good ideas and ask them to share those with the whole class.
 - “That’s a really nice idea. Would you mind if I have you share that idea with the whole class in a few minutes?”

Other strategies

- › Normalizing struggle
- › Explicitly emphasizing the value and importance of partially formed and/or partially correct ideas
- › Strategies for forming groups / assigning roles?
- › Equitable assessment strategies (e.g. homework/exams/quizzes/etc)?

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UNUSED

Tools of Support

› Cooperative (group) learning

– Advantages:

- › “...it fosters learning academic content and social skills...” (Esmonde, 2009, p.1009)
- › “...supports democratic and social justice goals...” (Esmonde, 2009, p.1009)
- › “...leads to greater intergroup harmony..” (Esmonde, 2009, p.1009)

– Disadvantages:

- › When not monitored properly, “[s]tudents may learn incorrect mathematical strategies and undesirable social interactional styles” (Esmonde, 2009, p.1009)