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**Jo Boaler\***, Stanford University, Stanford, CA. *Changing mathematical relationships and mindsets: how all students can succeed in mathematics learning.*

This talk and discussion will consider how important new brain science can change students' ideas and approaches to mathematics, change students' mathematics pathways dramatically, and promote equity in mathematics classrooms. We will hear about research in neuroscience and education, watch classroom videos and consider mathematics transformations for school and college students. (Received August 05, 2017)