

Modernizing the Mathematics Classroom

This document is intended to help guide teachers on the big ideas of how to create a modern mathematical classroom.

Top 10 Practices for your mathematics Classroom

1. Ensure that *ALL* students have access to grade-level [standards](#).
2. Create daily opportunities for students to engage with the [Standards of Mathematical Practice](#) (SMPs).
3. Utilize the [8 Mathematical Teaching Practices](#) from NCTM's Principles to Actions.
4. Create a [student-centered classroom](#).
5. Continually foster your and your students' [Mathematical Identity and Agency](#).
6. You and your students should use the [10 Dimensions of Formative Assessment](#) daily.
7. Create opportunities for students to make connections across [multiple representations](#).
8. Allow students to engage in [productive struggle](#).
9. Facilitate productive [student discourse](#).
10. Incorporate rigorous, grade-level, and group-worthy [math tasks](#).

Additional Learning

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| <ul style="list-style-type: none"> ● Catalyzing Change Key Recommendations ● Building Growth Mindset ● Playing and taking risks ● Classroom is a safe space to make mistakes ● Confidence Building ● Habits of Mind ● The Opportunity Myth ● ADE Math Document - SMP's and SEL ● Fluency Without Fear ● The Evolution of the SMPs in the Math Classroom | <ul style="list-style-type: none"> ● Progression Documents ● Feedback ● Never Say Anything a Student Can Say ● Culturally Relevant Instructional Practices ● Complex Instruction ● Problem-Based ● Features of Quality Tasks ● Formative Assessment: Common Core Standards in the Math Classroom An Enabler of Learning |
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