



ConnectedPD
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ONLINE: Mathematics for All Teachers

“This course opened my eyes to the importance of making sure math is not just a repetition of practicing problems but making sure it is relevant to the children’s lives.”

- Jennifer A.

Math is a subject that is very connected with every other subject taught in the classroom. This course is designed to help any teacher gain confidence in areas related to mathematics and the common core. It is a great start for teachers looking to implement STEM and other models of integrated education.

Mathematics for All Teachers helps teachers understand math practices and application of math. It helps teachers understand ways in which these practices can be incorporated into any classroom, explains the different ways a teacher can enhance student learning, and encourages teachers to set up their classroom in a way that increases student involvement and makes math real and fun for everyone.

Mathematics education is changing today and is no more just about solving questions on paper. It’s all about application and using math in real ways. This course will help equip Math, Science, Language Arts and Social Studies teachers to gain confidence in integrating math effectively in their teaching practice. And so much more!

Standards:

This course aligns to all of the INTASC Standards including Learner Development, Learning Differences, Learning Environments, Content Knowledge, Application of Content, Assessment, Planning for Instruction and Instructional Strategies.

It also aligns to all of the McRel Teacher Evaluation Standards including Teacher Leadership, Diverse Learners, Teachers Know Content, Teachers Facilitate Learning and Teachers Analyze and Reflect.

Each online PD course includes:

- **Convenient access** anytime, anywhere, any device
- Interactive **online** textbook
- Implement **practical suggestions** immediately
- Demonstrate comprehension with **quizzes** and checks for understanding
- Print **certificates** of completion
- Easily assign courses to align with each teacher’s **personalized PD needs**
- **Integrate** with school and district-wide initiatives
- **Low cost solution for all courses, all teachers, all school year**
- **Reports** for school administrators





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Course Outline

LESSON 1: Math for All

- History of Mathematics
- Standards and Mathematics today
- The truth about Math
- Discrediting the different math myths
- The solution to math anxiety

LESSON 2: Standards-based Math Practices

- Mathematics redefined
- NCTM and CCSS standards related to Math
- Mathematical practices and strategies to employ in the classroom

LESSON 3: Facilitating Student Learning

- Motivation theories and how to apply them in the classroom
- Different learning styles
- Understanding conceptual basis of math facts and procedures
- Teacher attitudes about Math

LESSON 4: Reaching Standards

- Math and Group Work
- Making connections between math and real life
- Using mathematical tools
- Encouraging persistence, providing novelty, and differentiating instruction while teaching math
- Assessing students and encouraging self-assessment
- Modifying the physical classroom setting to promote learning