Program Overview

Register online at go.rowan.edu/STEMteachers

- Five (5) Professional Development hours per workshop
- $149 per workshop
- Workshops run from 8:30 a.m. to 1:30 p.m.
- Located at the Rowan University Glassboro Campus and South Jersey Technical Park

For more information, please contact:
Brigid Milone
Coordinator, STEM Center
milone@rowan.edu
856-256-4827

For a complete listing of workshops and registration links, visit:
go.rowan.edu/STEMteachers

Rowan University
STEM Center
600 Whitney Avenue
Glassboro, NJ 08028

Fall 2018 – Winter 2019 Professional Development Workshops for STEM Teachers
Each of the following workshops focuses entirely on the specific grades’ NJ Student Learning Standards for Mathematics. Workshops will examine the big ideas at each grade, delve into the specific standards, and look at examples of rich activities for teaching standards. Sessions are applicable to teachers and coaches of Grades 3-5, however, anyone who wants to examine the Grade 3-5 standards may attend:

**Teaching Mathematics in the 3rd Grade**
*December 7, 2018*

**Teaching Mathematics in the 4th Grade**
*January 10, 2019*

**Teaching Mathematics in the 5th Grade**
*January 15, 2019*

For a complete listing of workshops and registration links, visit: go.rowan.edu/STEMteachers

---

**Workshops**

**Addressing the NJ Math Standards Using Children’s Literature (Grades K-3)**
*November 26, 2018*
Join us for this fun, engaging workshop integrating children’s books, songs and poems into math instruction for early elementary students.

**Nothing but Desmos (Grades 6-12)**
*December 12, 2018*
Come enjoy this workshop on the free, online graphing calculator, Desmos. We will explore all of its features from animating objects and functions, creating lessons and assessments (on teacher.desmos.com), working with the new Desmos geometry platform, and even exploring the link between art and math.

**Reinventing and Reimagining the High School Mathematics Classroom (Grades 9-12)**
*December 19, 2018*
Today, it seems as if nearly everyone agrees that mathematics (especially high school math) needs to change. For far too long, mathematics has not worked for too many students. This session will discuss realistic steps that the math community must take including creating math pathways for high school students and a focus on modeling tasks.

**Rethinking Word Problems in Elementary School (Grades 2-5)**
*December 20, 2018*
This session will have teachers rethinking how to teach word problems and problem-solving tasks. Specifically, we will discuss how students approach word problems by peeling back the layers.

**Fun and Engaging Activities for Addressing Number Sense (Grades K-2)**
*January 8, 2019*
Participants will be engaged with hands-on activities that promote the understanding of number sense. This workshop will focus on NJ Math Standard NBT: Numbers and Operations in Base Ten Grades K-2.

**Passing Notes in Math Class: Using Dialogue Journals to Support Rich Mathematical Discourse (Grades 5-12)**
*January 9, 2019*
The Dialogue Journal process is a highly engaging way to get your students thinking, writing, and talking like mathematicians. In this interactive workshop, you will collaborate to solve complex problems by engaging in the Dialogue Journal process. You’ll then learn how to implement them to create and support a discourse-rich mathematics classroom.

**Watershed Management for Educators (Grades 6-12)**
*November 2, 2018*
This workshop provides teachers with valuable resources to introduce students to New Jersey watersheds and water quality – an important component of earth and environmental science courses. This workshop also includes field time during which participants will get hands-on experience monitoring water quality.

**Teach Like a Magician (Grades K-12)**
*November 30, 2018*
Student engagement is one of the top priorities in STEM education. By structuring lessons and thinking about topics the way a magician would, STEM educators can effectively engage students and increase progress towards desired learning outcomes.

**STEM Activities for Physics & Astronomy - Cell Phone Apps, Astrophotography, and Planetarium Skies (Grades 6-12)**
*January 11, 2019*
Explore the world of physics and astronomy in this totally interactive workshop. Examine the starry skies of the Edelman Planetarium make use of numerous cell phone apps to identify planets, stars, constellations, and galaxies. Includes 25 activities to take back to your classroom.