

## Designing Instructional Tasks to Increase Student Engagement and Learning in Math

This sustained professional development course is designed to support teachers who aim to provide their students with a connected and conceptual understanding of math content. Through an introductory three-day, in-person workshop; virtual support; and ongoing coaching, this course will help math teachers provide increased opportunities for students to learn by increasing their use of high cognitive demand tasks in their classrooms. Teachers will become more closely acquainted with the disciplinary practices described by the Common Core State Standards as well as the *5 Practices for Orchestrating Productive Mathematics Discussions*. Using these resources as a framework, teachers will learn to engage students in authentic mathematics in ways that are aligned with the changing landscape of education in the U.S.

**DATE:** July 28–30, 2020

with three virtual sessions in the fall (TBD)

**TIME:** 8:30 a.m.–4:30 p.m.

**LOCATION:** Mountain View, CA

**PRICE:** \$400

Financial support may be available; visit [www.knowlesteachers.org/knowles-academy](http://www.knowlesteachers.org/knowles-academy) to learn more. Optional graduate course credit is available; additional fees apply. Course is subject to cancellation if minimum enrollment is not met.

### Course Highlights

- Engage in mathematical tasks as learners
- Modify tasks to increase cognitive demand
- Plan a lesson using the 5 Practices
- Organize and plan for collecting and analyzing data from that lesson
- Explore mathematical talk in classrooms frameworks
- Plan a lesson that focuses on cognitively demanding tasks for your classroom



The math tasks course has been truly wonderful and eye opening in the sense that it provided me with tasks that are so much more motivating, [including] high-level type thinking problems for the students. I'm really looking forward to implementing these tasks to give the students more opportunity to access high-level thinking and use those skills."

- Kristen Elliott, Math Teacher  
William Allen Middle School, Moorestown, NJ



The Knowles Academy offers state-of-the-art professional development experiences for teachers. All Academy courses are designed and facilitated by experienced teachers who understand the complexities of teaching in today's world. All courses include one semester or year of mentoring to assist teachers as they work to successfully implement what they've learned in their own classrooms. Participation in the Knowles Academy also gives teachers access to a national network of educators who share resources and ideas, and support each other to continually improve their teaching practice.

## Key Knowles Academy Features



### Teachers Supporting Teachers

Teachers learn best from other teachers. All professional development that we provide includes experienced teachers as facilitators and coaches.



### Professional Community Development

Teaching can be isolating. All of our professional development services are designed to build teacher community so that participants can continue to support each other's learning and professional growth long after the professional development experience ends.



### Long-term Support for Sustainable Change

Effective teacher professional development must be sustained and tied to classroom practice. All Knowles Academy courses include long-term support from coaches, opportunities for teachers to ground their learning in their current practice, and engage with other Knowles Academy participants over an extended period.



### Professional Expertise & Leadership

Designing and implementing effective professional development requires a diverse range of expertise and experience. All of our professional development services draw and build on the expertise developed within the Knowles community over the last 20 years.

## ABOUT KNOWLES

The Knowles Teacher Initiative supports the efforts of high school mathematics and science teachers to improve education in their classrooms and beyond. Visit [www.knowlesteachers.org](http://www.knowlesteachers.org) to learn more.

All Knowles Academy courses can be customized to meet the specific needs of schools and districts.  
[www.knowlesteachers.org/knowles-academy](http://www.knowlesteachers.org/knowles-academy)