



**San Joaquin County Office of Education**  
**Mathematics Professional Learning Opportunities**  
**- 2017 SCHEDULE-**  
**UPDATED JANUARY 4, 2017**



San Joaquin County Office of Education

**GRADES K-5**

**Number Talks with...**

*Dr. Sherry Parrish*

Many of you have either implemented number talks or are contemplating enacting them in your classrooms! Wouldn't it be great to spend a day with Sherry Parrish, the author of the award winning book, *Number Talks: Helping Children Build Mental Math and Computation Strategies?* Sherry will help us hone our skills at using this powerful tool to help students learn to reason with numbers, make convincing arguments, and advance their mathematical development.

Dr. Sherry Parrish is best described as “a teacher of teachers.” With over 35 years in the field of education, Sherry’s experiences as a classroom educator, university professor, and national and international speaker offer a platform focused on teaching and learning mathematics through inquiry. A recipient of the 1997 Presidential Award for Excellence in Mathematics Teaching, Dr. Parrish currently serves as an author and mathematics education consultant. She is the author of the AEP Distinguished Achievement award winning book *Number Talks: Helping Children Build Mental Math and Computation Strategies* and the sequel, *Number Talks: Fractions, Decimals, and Percentages*.

**Cost: \$90 – Morning OR Afternoon Session**  
**\$175 – Full Day (both sessions)**

**FEBRUARY 3, 2017**

**Registration Deadline:**  
**January 25, 2017**

**Grades K-2**

**8:00 – 11:30 AM**

**REGISTRATION**

**Grades 3-5**

**12:15 – 3:45 PM**

**REGISTRATION**

**Full Day (both sessions)**

**REGISTRATION**

**FLYER**



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**GRADES K-5 - CONTINUED**

**Developing Rich Mathematical Tasks**

The mathematical tasks that children experience shape the way they view mathematics. Children might see math as a subject of right or wrong based on procedures and memorization. Or, children might view math as a time of problem solving through communication and collaboration where their creativity in thinking is valued. **Rich mathematical tasks** engage students in Standards for **Mathematical Practices** while building content knowledge and critical thinking skills. Participants will learn:

- What makes a problem cognitively demanding?
- What types of math tasks better support our children’s critical thinking and conceptual understanding?
- How can we ensure that level of rigor (DOK) is maintained throughout the task as we guide our kids to construct their own knowledge and they learn what they are expected to learn?
- How to modify textbook problems into more cognitively demanding questions and create their own tasks.

**As we provide plenty of thoughtful and conceptual learning experiences via rich tasks to our kids, we begin to not only cultivate sophisticated math minds but also develop the 21<sup>st</sup> century skills.**

**Cost: \$250 per person**

**JANUARY 18 & 19, 2017**

***This session is full and no longer taking registrations.***

**FLYER**



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**GRADES 6-8**

**Developing Rich Mathematical Tasks**

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**Cost: \$250 per person**

**JANUARY 12 & 13, 2017**

***Registration Deadline:***  
***January 5, 2017***

**REGISTRATION**

**FLYER**



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**GRADES 6-8 - CONTINUED**

**\*\*\*NEW SESSION\*\*\***

**Probability and Statistics**  
*Statistics and Probability in the Common Core*

In middle school, students are introduced to the study of statistics and probability to develop a deeper understanding of statistical tools, representations, and applications, laying a foundation for future study in high school. In this 2-day session participants will investigate key statistical concepts new to their grade level through meaningful tasks and investigations and study the progression of concepts from grade 6 to grade 8.

**Cost: \$250 per person**

**MARCH 28 & 29, 2017**

*Registration Deadline:*  
**March 20, 2017**

**REGISTRATION**

**FLYER**



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**GRADES 6-12**

**\*\*\*NEW SESSION\*\*\***

**Using Technology in the Math Classroom**

*Technology Tools to Increase Student Engagement and Inquiry in the 1:1 Mathematics Classroom*

This workshop is for those teaching in a 1:1 environment (students with their own computers OR a classroom with access to a cart of computers for each student) or will be moving in that direction in the upcoming school year. Now that you have computers for every student in your classroom, what are the best practices for their use and the best available tools that students and teachers can use TODAY? In this workshop, we will look at a variety of the very best applications for math and dive into trying them live. From Desmos & Geogebra, which create rich mathematical playgrounds for instruction, to GAFE and other free student engagement tools, you will leave this workshop with plenty to explore and play with this summer.

**Cost: \$250 per person**

**MAY 11 & 12, 2017**

***Registration Deadline:***  
***May 2, 2017***

**REGISTRATION**

**FLYER**

## GRADES 7-12

### Dan Meyer

#### Beyond Relevance & Real World: Stronger Strategies for Student Engagement



Highlighting relevance and connections to the real world are often seen as the most effective strategies for engaging students in difficult mathematics, but both strategies are limited and can fail in crucial ways. In this 1-day session Dan Meyer will help you add strategies to your repertoire, looking at research-based methods for “turning up the dial” and “creating constructive controversy” instead.

Dan Meyer advocates for better math instruction and has appeared on *CNN*, *Good Morning America*, *Everyday With Rachel Ray*, and *TED.com*. He was named one of Tech & Learning’s 30 Leaders of the Future and is an Apple Distinguished Educator.

Dr. Meyer earned his doctorate from Stanford University, has been a classroom teacher, is an International speaker, and is currently the Chief Academic Officer at Desmos, a company helping move education’s print past into its digital future.

As a self-described “worker, learner, go-getter, writer, and speaker,” Dr. Meyer’s perspective on curriculum design, teacher education, and teacher retention is informed by tech trends and online discourse as much as front-line experience with students.

Meyer’s enlightening message – that teachers “be less helpful” and push their students to formulate the steps to solve math problems – will challenge you to take a fresh look at your teaching strategies.

*“I teach high school math. I sell a product to a market that doesn’t want it but is forced by law to buy it.”*  
-Dan Meyer

**Cost: \$175 per person**

***FEBRUARY 14, 2017***

***This session is currently full and accepting wait-list registrations only.***

**REGISTRATION**

**FLYER**



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**GRADES 9-12**

**Developing Rich Mathematical Tasks**

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**Cost: \$250 per person**

**FEBRUARY 27 & 28, 2017**

***Registration Deadline:  
February 17, 2017***

**REGISTRATION**

**FLYER**