



The Mathematics Standards Team

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Visit us online:

THE ARIZONA DEPARTMENT OF EDUCATION
MATHEMATICS PROFESSIONAL DEVELOPMENT
MATHEMATICS PROFESSIONAL RESOURCES

Wishing you an amazing summer filled with fun, family, friends and fabulous mathematics professional development! We hope you can spare a day or an hour to join us and other professional development providers for some amazing learning experiences.



[The Think Big Summer Math Institute](#) for **high school mathematics educators** and school teams taught by Dr. Scott Adamson and Dr. Trey Cox, two leading education mathematicians, will offer an exciting new vision for what it means to teach and learn mathematics. Participants will experience ways to promote the conceptual development of important mathematical ideas, develop teacher mathematical content knowledge and learn strategies to facilitate professional development that makes sense of Think Big math practices. The institute will be held from June 13th -17th from 8am-4pm every day at Grand Canyon University. [Click here](#) to register. Cost is \$450 or \$500 for non-participant schools.

T³ Workshops

Registration is open for T³ workshops this summer! Texas Instruments will be hosting two different workshops at Moon Valley High School this summer. You can register for either: Getting started with the TI-84 Plus Family in High School Mathematics on May 27th or Getting Started with the TI-Nspire Technology in Algebra on May 28th. Both workshops will extend teaching with technology knowledge and span from Algebra 1 to Algebra Concepts in Precalculus including statistics taught in Algebra 1 and Algebra 2.



[Click here to registration.](#) Registration costs include a calculator.



TODOS 2016: Ensuring Equity and Excellence in Mathematics for All. June 23rd -25th. Cost \$350
Sessions for TODOS 2016 will focus on the following topics:

- Integrating Language, Literacy, and Culture in Mathematics
- Building on Student, Family, and Community Strengths
- Framing Mathematics Education through the Lens of Social Justice
- Implementing Rigorous Mathematics Standards-Based Curriculum
- Assessing Student Mathematical Thinking through Formative Assessment
- Developing Leaders to Achieve Equity and Excellence in Mathematics



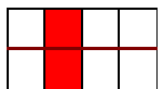
[Structuring Math Classes to Align with the Mathematics Teaching Practices](#) K-12 \$85
July 11 9:00 am-4:00 pm (6 hours) @ Ponderosa HS Flagstaff, AZ

Using NCTM's *Principles to Actions* (2014) recommendations as a framework, this course will consist of an in-depth exploration of the recommended Mathematics Teaching Practices and applications of these teaching practices in K-12 mathematics classes. Participants will develop an action plan for revising or restructuring their math teaching practices and classroom environments to develop or enhance the mathematics teaching practices and put them into action.



Thank you Amazon for giving us a place to pledge to stop saying "I'm not good at math" and approach math with a growth mindset. [Take Action! Pledge now!!!](#)

ADE Sponsored Mathematics Professional Development



Making Sense of Fractions June 1st- 2nd Free

This two-day professional development focuses on the development of conceptual understanding of fractions and using that understanding in helping students to operate with fractions. Outcomes for this two-day training include:

- Examine the progression of fraction standards in 3rd-6th grade
- Explore student strategies in creating understanding of fractions
- Create tasks appropriate to understanding for your grade level
- Build understanding of teaching fraction operations conceptually



K-2 Math Bootcamp: Getting Ready for the 2016-2017 School year

June 1st – 2nd \$60

Addition! Subtraction! Place Value! Problem Solving! Geometry! Measurement! All of this and more will be explored in this **2-day** Bootcamp (June 1 and June 2, 2016). We will examine researched methods on developing number sense through daily routines and problem solving. The book, *Teaching Student-Centered Mathematics: Developmentally Appropriate Instruction for Grades PreK-2 (Volume II)(2nd Edition)* by John Van de Walle will be provided for this training

Other Face to Face Trainings in June and July

Number Sense Tasks and Routines in K-3	June 13 th 8:30am - 3:30pm	Free
Promoting Productive Struggle in the Math Classroom, Grades 3-8	June 14 th 8:30am – 3:30pm	\$55
Developing Fluency with Multiplication Grades 3-5	June 15 th 8:30am – 3:30 pm	\$50
Coaching Actions that Strengthen Mathematics Teaching and Learning	July 25 th – 26 th 8:30am – 3:30pm	\$60

Summer Webinar Series Starts in June

Webinar: Development of Fraction Sense (10:00am-11:00am)	6/7	Free
Webinar: Math Journal Writing in K-2 (1:00 – 2:00)	6/7	Free
Webinar: Comparing Fractions and Equivalent Fractions (10:00am-11:00am)	6/8	Free
Webinar: Operations of Fractions (10:00am-11:00am)	6/9	Free
Webinar: Understanding Equality and the Equals Sign (10:00am-11:00am)	6/20	Free
Webinar: Supporting Place Value through Problem Solving (10:00am-11:00am)	6/28	Free
Webinar: Geometry in Middle School (1:00pm-2:00pm)	7/11	Free
Webinar: Teaching Statistics in Grades 6-8 (1:00pm-2:00pm)	7/12	Free
Webinar: Ratio and Proportion in Middle School (1:00pm-2:00pm)	7/13	Free
Webinar: Planning for the new school year in math, Grades 3-8 (10:00am-11:00am)	7/18	Free
Webinar: Understanding DOK in the Math Classroom (10:00am-11:00am)	7/19	Free
Webinar: Promoting Productive Struggle in the Math Classroom (10:00am-11:00am)	7/20	Free
Webinar: Planning for the new school year in mathematics, Grades 3-8 (9:00am-	7/27	Free
Webinar: Understanding DOK in the Math Classroom (9:00am-10:00am)	7/28	Free