

Resource Highlights

Mathematics



[IL Math Teachers in Action](#) is the place to find **tools and resources** to support instruction and to **stay informed** of everything happening in mathematics education in Illinois.

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- ◆ Join the [Math ListServ](#) to get weekly updates of upcoming events and new resources
- ◆ The [Illinois Resources](#) tab highlights tools and websites created by Illinois experts to support the Illinois Learning Standards for Math.
 - ◇ [IL Teach and Talk](#)—power point slides to be used as math talks to facilitate mathematical discourse in the classroom and teacher guides to deepen educators understanding of the Illinois Learning Standards for Mathematics
 - ◇ [Implementation Guides](#)—a map for teachers, guiding them to full implementation of the ILS for Mathematics
 - ◇ [IL Stats](#)—support for educators as they teach the rigorous statistics standards articulated by the ILS for Mathematics
- ◆ The [Resource Websites](#) page shares a compilation of resources to support teachers with implementation of the Illinois Learning Standards for Math.
- ◆ Stay informed of the scheduled topics for our virtual math community, [#ILMathCom](#), and explore the archived videos of our past #ILMathCom topics.
- ◆ Check out the [Lesson Study](#) page to learn all about our Virtual Lesson Study process, peruse our library of research lessons written by Illinois educators during past lesson study cycles, and sign up for an upcoming lesson study cycle.
- ◆ Our [Professional Learning](#) page will keep you informed of all of our upcoming professional learning options. There are also several SIP Day Learning Opportunities which anyone can use to facilitate small group or individualized learning.

#ILMathCom

#ILMathCom is a virtual community for Illinois math educators. Find out all the details and registration information for upcoming #ILMathCom events here, <http://www.mathteachersinaction.org/ilmathcom.html>.



On August 30, join us as we explore lesson study as an empowering, collaborative professional learning option. Lesson Study expert, Akihiko Takahashi from DePaul University, will share some of his insights and experiences and a few past participants of our Illinois Virtual Lesson Study will talk about their experiences as well. Come prepared to ask questions and learn more about how to join a future lesson study opportunity.

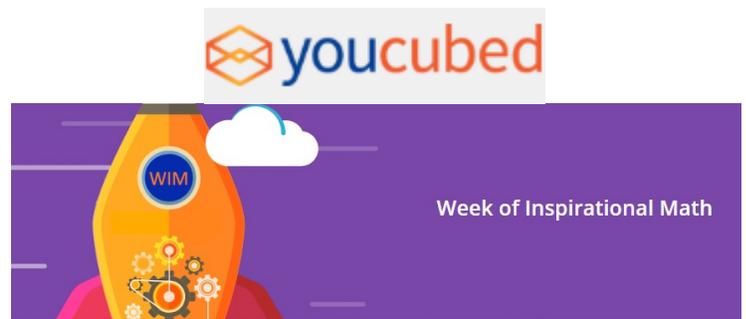
On September 6, we will focus on Transitional Math Courses. Kathleen Almy, the Illinois Director for Transitional Math from Northern Illinois University, will share a little background information about the PWR Act and Transitional Math Courses and Anji Garza, Director of Professional Learning at ROE #47, will share information about the work that has been done so far and why these programs are so important for our high school students. We will also discuss opportunities for Illinois Educators to be involved in the development and piloting of materials to support these courses. The meeting will conclude with some time for Q&A and discussion.

Week of Inspirational Math

Jo Boaler and her team at Stanford have compiled week long units for the first week of school titled, Week of Inspirational Math on their website youcubed.org. Each lesson is comprised of a math activity and a mindset video. The activities are designed to be open, creative, and visual—to allow students to experience the beauty of mathematics. The videos educate students on the power of growth mindset, bust some of the prolific myths that only a select few people have what it takes to be good at math, and address some of the common struggles that many students experience in math.

By starting the year with the Week of Inspirational Math,

you will be laying the foundation for a classroom climate and culture that allows students to reach their full potential—a classroom where mistakes are celebrated, students who embrace a growth mindset, and lessons that engage all levels of learners in high level mathematics. Find lessons for Kindergarten through Grade 12 here, www.youcubed.org/week-inspirational-math/.



Lesson Study

Lesson Study is a highly effective form of professional learning. Participants work as a team to create a Research Lesson designed to meet the goals of their Research Theme. One team member then delivers the Research Lesson to her/his class while the other team members observe and collect data. The team then reflects and uses the data collected to revise the lesson to better meet the intended goals. This process facilitates collaboration, planning, reflection, data driven instruction, integration of effective instructional practices, and investigation of available, reliable resources aligned to the Illinois Learning Standards for Mathematics.



In order to make Lesson Study more accessible to Illinois educators, the content specialists have modified the process slightly so that it can be facilitated mainly virtually. To learn more about our Virtual Lesson Study process or to sign up for an upcoming lesson study cycle, check out our lesson study page here, <http://www.mathteachersinaction.org/lesson-study.html>.