

**MATHWORKS TUTORING, LLC**  
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**School starts in just over a month**  
**Is your student ready for the new school year?**

It seems as though school just ended and here we are, roughly five weeks away from the start of a new school year. If your child has been struggling in math, or tends to forget math concepts during the summer, then Mathworks Tutoring may have the suite of “refresher” programs that he/she needs. In fact, Mathworks is offering four 10-hour readiness programs during the period Aug. 3-14, 2015 to help students get, “back in the swing of things.” These programs include:



Geometry and Visualization (elementary)	8/3 – 8/7	10am – noon
Sorting, Classifying and Logic Puzzles (elementary)	8/3 – 8/7	1pm – 3pm
Transition to Middle School Math	8/10 – 8/14	10am – noon
Real-life Thinking and Problem-solving (high school)	8/10 – 8/14	1pm – 3pm

The programs are designed to be hands-on and mind-on and will be conducted in a flexible format to ensure they meet the needs of the students who attend.

Price per session is \$139 per student. Families registering two or more students or having one student attend two or more sessions will receive a 10% discount per student.

Enrollment will be capped for each of these programs, so please register early.

For additional information about these “refresher” programs, please contact H. Michael Mogil at [mathworks@weatherworks.com](mailto:mathworks@weatherworks.com) or 239-591-2468.

Mathworks Tutoring also offers one-on-one, "TOTALLY TAILORED TUTORING™" for students year-round. This includes those students needing to retain or learn subject matter skills and knowledge, who are working to complete on-line FLVS courses, who wish to train for SAT/ACT/ASVAB or other standardized tests or wish to be challenged further in grasping advanced math concepts. Please note that Mathworks emphasizes real learning and understanding (applicable to all tests), not just studying to pass a particular test.

Here's our suite of summer offerings:

### **Geometry and Visualization (elementary) -- Priscilla Sandler**

Two- and three-dimensional shapes are important to understanding the world around us. Just take a look at highway signs, building designs, and even the packaging of our food products. This logically leads to concepts such as area and volume and the units used to represent these.

In this program, we will work with Geoboards, Pattern Blocks, Tangrams and a host of common everyday items to discover the properties and relationships of two- and three- dimensional geometric shapes. We will also use these shapes to reinforce measurement skills and the units/dimensions involved in describing them.

Finally, students will measure and/or compute distances, area, perimeter and volume using both standard English and metric units.

### **Sorting, Classifying and Logic Puzzles (elementary) -- Priscilla Sandler**

Nothing builds critical thinking and reasoning skills like working with patterns and solving logical puzzles. And, this program will be full of these types of activities.

Patterning can be as simple as looking for the repetition of shapes or numbers in a design to creating Venn Diagram and other graphical representations of various data sets and analyzing the organization of information that appears. Similarities and differences of various things will also be examined.

Equally important are games and logic puzzles. Students will have a chance to engage in these activities each day, as well as create and solve their own logic puzzles. Look out! Your child may challenge you to try out these puzzles, once they discover the fun they have in "being math detectives."

### **Transition to Middle School Math -- Barbara Levine**

In this program, students will solidify basic math skills involving adding, subtracting, multiplication, division, fractions, decimals and percents and learn ways to use mental math and faster computational skills to arrive at correct answers. Calculators will be used only to check student's answers!

Students will also gain insights into decoding and solving word problems. There will be an introduction to logical thinking strategies and the building of stronger step-by-step solution procedures, study skills and test-taking strategies.

### **Real-life Thinking and Problem-solving (high school) -- H. Michael Mogil**

There is "school thinking" and there is thinking in real-life situations. The latter can involve simply deciding what size package to buy (e.g., unit pricing and/or family needs) through important ethical, moral and possibly, life-altering, decision-making. In this program, students will be faced

with real-life situations and have to work through them individually and in group/team settings (much like they will have to do when they leave home to attend college and/or join the job market).

This program is not about, "finding the right solution," because "right" may be different to different people in their own situation. Rather, the focus will be on the HOW one goes about taking in needed data, analyzing it, evaluating options (cost-benefit-risk) and arriving at one or more viable solutions. Individual and team problem solving, through logical and analytical steps, will be emphasized because both types of scenarios permeate our world. The process may appear to look like that portrayed on the CSI TV show (and that's because it is).

Another part of the problem-solving process involves mathematical problem-solving. This includes solving an array of mathematical puzzles, word problems and games, assessing statistical data and employing mathematical concepts in everyday situations. Attendees will also be challenged to develop and use observational skills in natural and other settings to ascertain meaningful and other patterns.

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