Construction and Transformation in Geometry

Featuring Teachers²¹ Workshop Trainer
Polina Sabinin

Many of our students believe that the study of Geometry is just about remembering vocabulary or double-column proofs. However, it is much more! It is about visualizing and reasoning, building and drawing, making sense of new ideas, connecting the ideas to what we already know, and communicating them to others.

This workshop will explore hands-on activities and problems that provide students with opportunities to make sense of challenging geometric concepts, validate their intuitions, redevelop theorems, and connect their new ideas to Algebra, Statistics, Numbers, and their Operations. From compass and straightedge constructions to Patty Paper and games involving transformations, Geometry can be accessible to all students!

Participants will:

• Explore algebraic and geometric transformations using engaging materials and games.
• Discover the deep connections between Geometry and Algebra, Statistics, and Numbers and Operations.
• Use constructions with compass and Patty Paper to prove theorems and explore patterns.
• Explore a variety of classroom activities to engage all students.

Thursday, December 15, 2011
At the MSSAA Office

Sign-In/Registration: 8:00 am
Workshop: 8:30 am to 3:00 pm

Massachusetts Secondary School Administrators’ Association
33 Forge Parkway, Franklin, MA 02038

Workshop Contact: Linda Taylor
Phone: (508) 541-9832
Fax: (508) 541-9888
E-mail: ltaylor@mssaa.org

Polina Sabinin has been combining consultant work for Teachers²¹ while completing her doctorate in mathematics. Prior to this period she was Associate Director of the Center for Mathematics Achievement at Lesley University and an editor of various textbook series in mathematics for Pearson Addison-Wesley. Polina is the President of the Massachusetts Mathematics Association of Teacher Educators (MASSMATE) and former Newsletter Chair for the Association of Teachers in Mathematics. She is currently co-authoring LogicGym, a teacher’s manual introducing children to logic through an engaging visual game.
MSSAA Workshop Registration Policies

_Cancellation_: Cancellations received up to 72 hours before the workshop will be honored. If you do not cancel and do not attend, you are responsible for full payment.

_Instructional Weather_: If the weather is uncertain, call the MSSAA front desk at (508) 541-7997 or check the website at www.mssaa.org after 6:15 a.m. on the morning of the workshop to check for cancellation.

_Confirmation_: If you have not received a confirming email within a few days of registering, please call Linda at (508) 541-9832. This printed email or your printed, completed online registration confirmation (“Registration Successful!” at the top) is your proof of registration.

_Group Discount_: Schools or Districts registering three or more people at one time qualify for a discount of $20 per person per workshop.

_“Umbrella”_: Teachers may register for the member rate if their building principal is an MSSAA Member.

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_Fees_: Member $195/Non-Member $260

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**Name:**
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**School:**
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**Position:**
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**Address:**
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**City:**
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**State:**
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**Zip:**
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**Phone & Ext:**
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**Email (mandatory):**
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_Program fee includes training, training materials, continental breakfast and lunch!_

_Total Registration Fee: $_____________________

_Check or Purchase Order #: _______________________

_Return this form to: Linda Taylor, MSSAA, 33 Forge Parkway, Franklin, MA 02038, or fax to:

MSSAA, Attention: Linda Taylor, (508) 541-9888

_Register online at _http://mssaa.org/professionaldevelopment_

Earn four additional PDPs (per day) by using workshop content in your school or district!
For more information about the additional PDP component, please contact Linda Hayes at the
MSSAA Office, (508) 541-7997, or by email at lhayes@mssaa.org. Participants may combine
PDPs earned for workshops in the same strand.