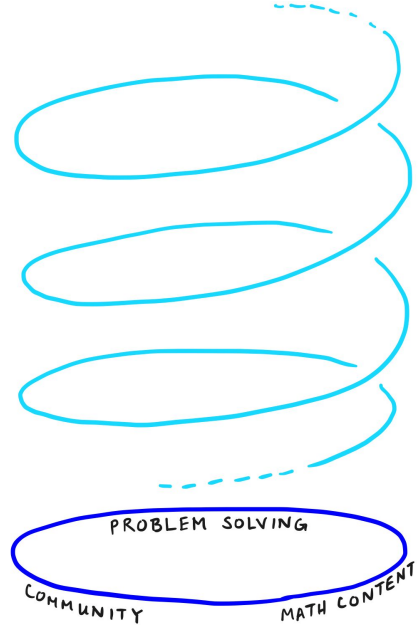
Journal of Math Circles

Emilie Hancock & Brandy Wiegers
Central Washington University



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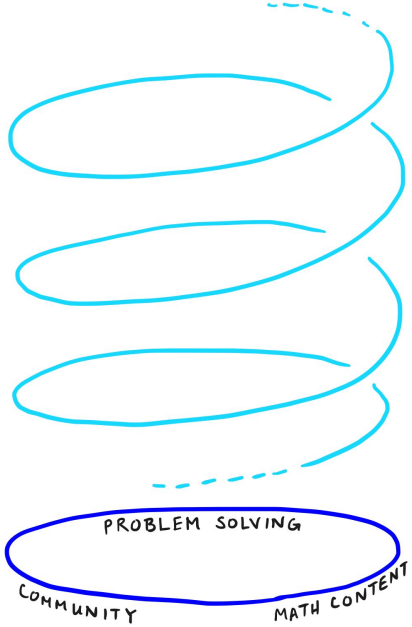
About Journal of Math Circles

Yearly issues with special issues on themed topics

No page limits!

Open-access creative commons

All published manuscripts have unrestricted access and will remain permanently free to read and download.



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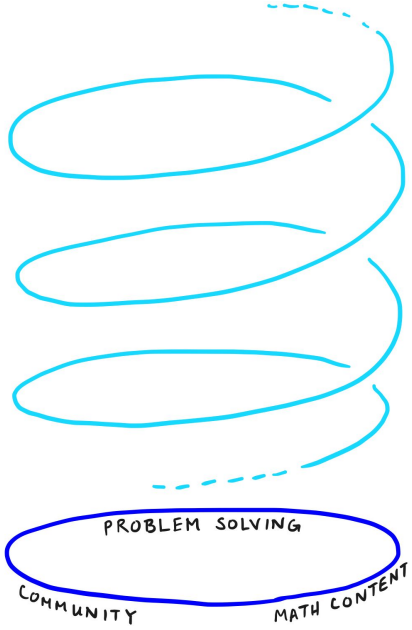


JMC Core Values

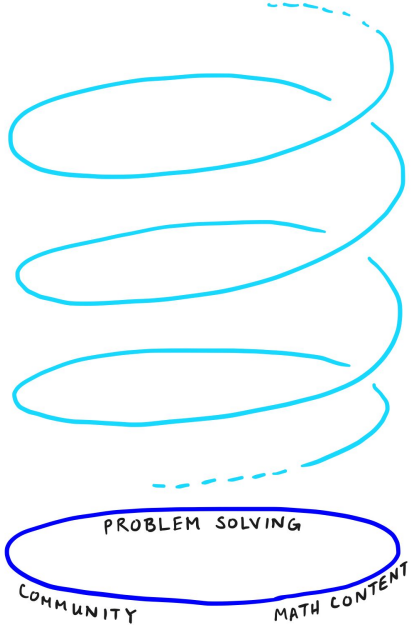
Exploring Worthwhile Mathematical Tasks[1]

Math Circle tasks provide low-floor access to essential disciplinary questions, with high ceilings that connect to important, deep mathematical ideas.

Fostering Problem-Solving Habits of Mind[2,3]

Math Circle problems are facilitated in ways the promote authentic mathematical experiences, where participants maintain agency in driving exploration of mathematics.

Building a Community of Mathematical Thinkers and Problem Solvers



1. Cai, J., & Lester, F. (2010). Why is teaching with problem solving important to student learning. *National council of teachers of mathematics*, *13*(12), 1-6.
2. Mason, J., Burton, L., & Stacey, K. 1982. *Thinking mathematically*. Addison-Wesley.
3. Selden, A., & Lim, K. H. 2010, October. Continuing discussion of mathematical habits of mind. In *Proceedings of the 32nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Columbus, OH: The Ohio State University*.

JMC Special Issue 1:

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The Intersection of Math Circles and the Global Math Project

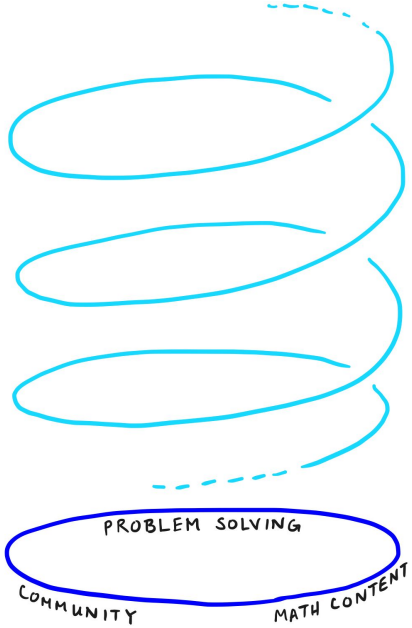
The Global Math Project provides access to worthwhile mathematical tasks, like *Exploding Dots*.

"Open research questions are right at the door."

The Global Math Project fosters problem-solving habits of mind.

"[W]e can teach the world to flail with joy
and find success through persistence."

The Global Math Project builds a *global* community of mathematical thinkers and problem solvers.



Commentary from the Field: Elimu Haina Mwisho, "Education has not limits"
Erick Mathew Kaaya, Global Math Project Ambassador
(Meru District, Tanzania)

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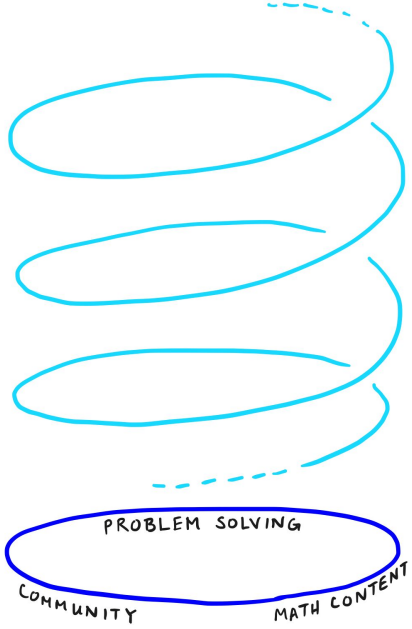
3 article types

Lesson Plans. These papers are intended to support leaders of a Math Circle session or progression of sessions.

[Grades 3-5] The Signaling Problem: Using Exploding Dots to Solve an Accessible Mystery in an Elementary-Aged Math Circle
Rodi Steinig, Talking Stick Learning Center

[Grades 4-8] Exploding Dots at the MSU-Billings Math Circle
Tien Chih, Montana State University-Billings

[High School] Advanced Topics Using Exploding Dots: An Explosion of Variations on the Theme
Robert Sachs, George Mason University

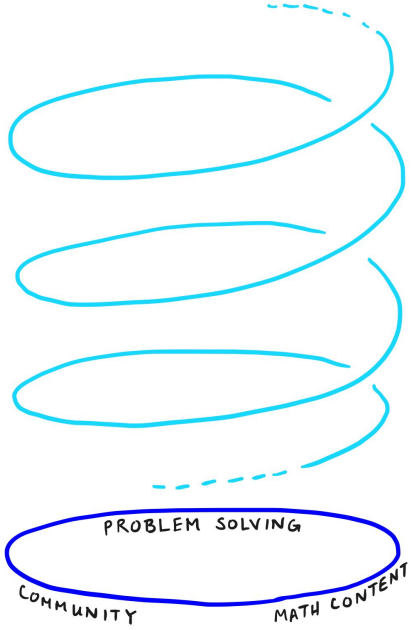


3 article types

Outreach Programs. These papers are intended to support individuals or organizations in starting or sustaining Math Circle outreach programs.

Connecting Mathematics and Community: Challenges, Successes, and Different Perspectives

Ariel Azbel, Brown University
Margarita Azbel, Orlando Math Circle
Isabella F. Delbakhsh, Lake Highland Preparatory
Tami E. Heletz, Lake Highland Preparatory
Zeynep Teymuroglu, Rollins College



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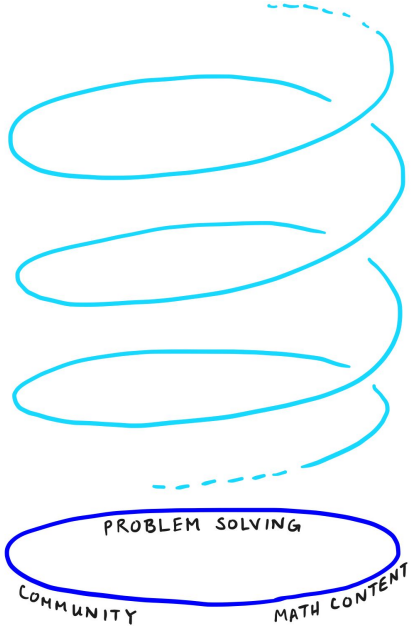
3 article types

Professional Development. These papers are intended to support leaders of K-12 Math Circle teacher professional development.

Math Amigos: A Community Mathematics Initiative

James C. Taylor, Math Circles Collaborative of New Mexico
Delara Sharma, Santa Fe Public Schools
Shannon Rogers, Art of Problem Solving



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Write for us!

Double-blind peer review process

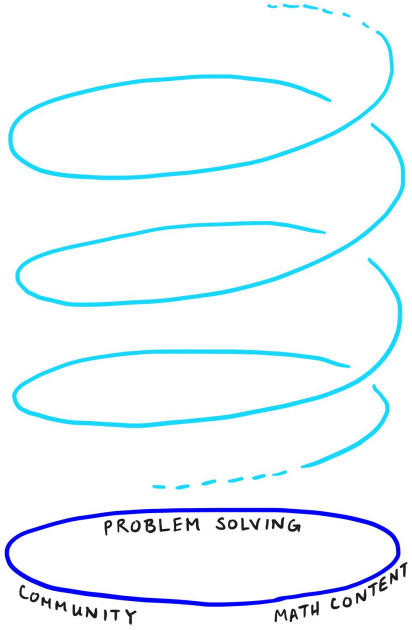
- 4 weeks per round of reviews (min. 2 reviewers)

Evidence-based reflective commentary

- Take attendance
- Collect written artifacts
  - Participant mathematical work
- Document observations
  - Pictures/videos of participants in action
  - Keep a journal observation notes
    - Session implementation, participant reactions
- Interview, survey participants
- Obtain consent/assent

TeX template, Overleaf link, article samples on website

- Please use TeX!



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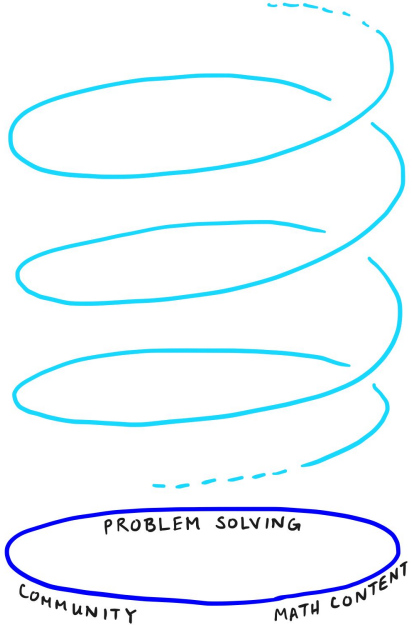
Review for us!

JMC is double-blind peer-reviewed and manuscript reviewers are vital to this process.

As a reviewer for JMC, you will gain valuable experience and help **support the Math Circle community**.

If you are an experienced reviewer or are interested in reviewing for the first time, **visit the JMC website**.



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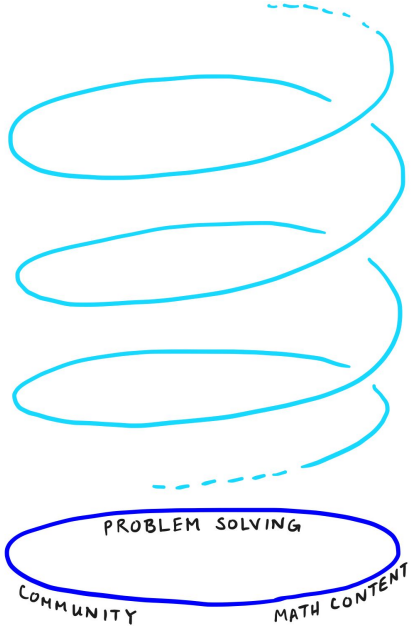
JMC JAM SESSION at MathFest

Authors are encouraged to attend this workshop and start preparing JMC manuscripts

Time: Friday, 10:10-11:30 AM

Location: DECC 201



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Contact US!

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