

Mathematics Knowledge Network Updates (November 2017)

Network Growth

We have grown to include over 14 school districts, 15 universities, and 16 organizations!

School District Partners

CSC Providence, DPCDSB, GECDSB, HWDSB, KPRDSB, LDSB, NNDSB, NCDSB, RDSB, TDSB, TCDSB, UGDSB, WCDSB, YRDSB

University Partners

Brock, Huron UC, Lakehead, Laurentian, Laurier, Nipissing, OISE, Ottawa, Queen's, Trent, UOIT, U of T, Western, Windsor, York

Organizations

AECEO, AFEMO, CMS, CPCO, FNMIEAO, KTEI, MLN, ML2N, NWML2N, OAME, OECTA, OMCA, OPC, OSSTF, SWOAME, TVO

MKN Website & TeachOntario

- Visit mathnetwork.ca, sign up for our **mailing list**, and follow us on Twitter [@mknrcm](https://twitter.com/mknrcm) to stay up-to-date on network activities and resources.
- The MKN Hub is now live at TeachOntario.ca! Share & engage with Ontario teachers (and beyond!) through our online discussion groups.



Upcoming Sharing (more details at mathnetwork.ca/events)

- **KNAER Cross-Network Meeting (Nov 30):** MKN will attend & learn/share with other KNAER networks.
- **MKN CoP Lead Meeting (Jan 26):** CoPs will meet to discuss Year 2 progress, share artifacts, and discuss next steps.
- **Ontario Education Research Symposium (Feb/Mar TBD):** potential joint-presentation with all KNAER networks, including the MKN.
- **MKN Advisory Panel Meeting (Apr 17):** Opportunity for MKN partners to come together to discuss network updates and future plans.
- **OAME Math Conference (May 3-4):** CoP members will present their work.

Communities of Practice



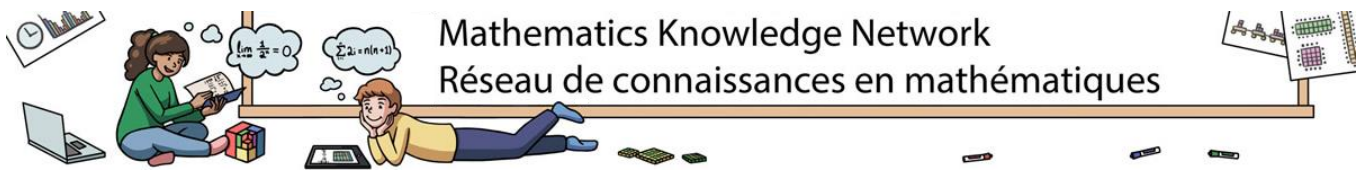
Find resources and Year 1 overviews at mathnetwork.ca/mkn-resources.

Our four CoPs completed their Year 1 activities and have created and shared various resources such as research minis, documentaries, lesson plans, literature reviews, and more.

CoP leads met on October 24, 2017 to share their work from Year 1, discuss future plans, and find cross-CoP connections. Attendees represented all 4 CoPs, the MKN Executive, TVO, KNAER, and the Ministry of Education. CoP leads will meet again in January 2018 to report on progress, share artifacts, and discuss next steps.

The MKN is funded by the Ontario Ministry of Education. The MKN is a KNAER Project hosted by the Fields Institute for Research in Mathematical Sciences.





Mathematics Knowledge Network Réseau de connaissances en mathématiques

Communities of Practice in Year 2 (September 2017 – August 2018)

Computational Thinking in Mathematics Education

- Wellington CDSB:
 - Elementary: Leadership Projects.
 - Secondary: Gr 10 Math + Comp. Sci. Cohorts.
 - St. Andrews PS + Rainy River DSB collaboration.
 - Western Education: Refined Math + CT integration.
 - Brock/Niagara CDSB collaboration on CT in HS math.
 - Offer mathematics based activities for hour of code.
- See mathnetwork.ca/ct for more information.



Math + coding by Grades 2/3 students at St. Andrews PS, TDSB.



Critical Transitions in Student Mathematical Development

- Early Years:
 - GECD SB Professional Development Day September 2017.
 - Scale-up Year 1 survey (~5000 educators).
 - Balanced Numeracy website development.
 - Gr 8-9 Transition workshops.
 - HS Math Enrichment Modules (Math9-12) – workshops, field testing with 9 teachers, 270 students, as well as a student survey.
 - Various OAME workshops. Stay tuned!
- See mathnetwork.ca/transitions for more information.

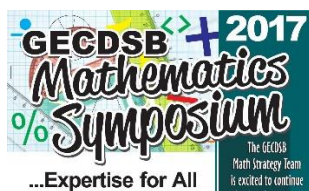
Indigenous Knowledge in Mathematics Education

- CoP meetings and sharing (e.g. FNMIEAO Educator Conference, IK Conference in Fort Frances, OAME, OERS, etc.).
 - RMS Virtual Learning Series: Supporting Indigenous Learners in Mathematics with Ruth Beatty and Danielle Blair (IK CoP members)
 - Developing protocols for working with Indigenous communities, and developing a video resource.
 - Visiting school boards for co-learning sessions.
- See mathnetwork.ca/indigenouknowledge for more information.



Mathematics Leadership

- Ongoing meetings & events with CoP partners (e.g. Leadership Institute in North Bay with Cathy Fosnot, GECD SB Mathematics Symposium, and many other MLN, ML2N, and NWML2N events).
 - Blogging, podcasts, and Twitter chats via [@TheMathPod](https://twitter.com/TheMathPod) – a collaborative learning space for educators who want to learn more about mathematics.
 - GECD SB: Mobilizing lead-learners to build depth and spread by developing the expertise of all educators.
- See mathnetwork.ca/math-leadership for more information.



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