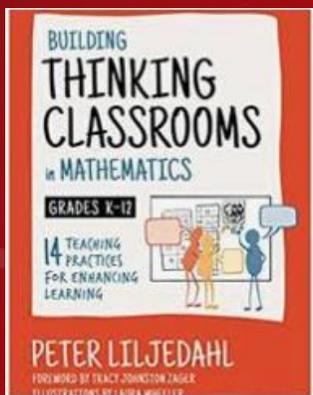




Merry Math Newsletter

Dec/Jan 2021-2022

Looking for a great Holiday read? Here's what math teachers are reading:

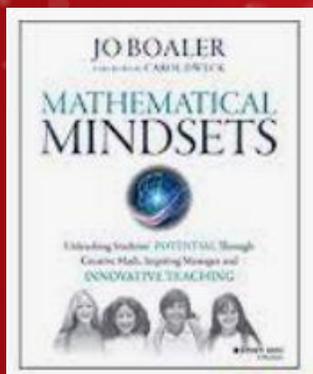


Probably the most widely read book by math teachers right now is Peter Liljedahl's [Building Thinking Classrooms](#)

[Click here for a preview of the book](#)

[Peter Liljedahl explains the research and the work](#)

[A glimpse of a thinking classroom](#)



Another math favourite, now used in some Math ed programs. This will change the way you think about teaching and learning!

[Preview](#)

[Jo Boaler TED talk](#)

[YouCubed website for math teachers](#)

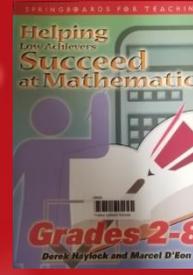
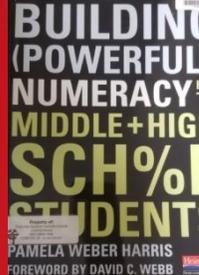
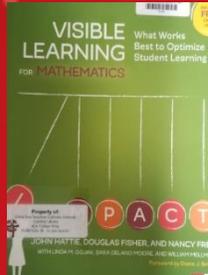
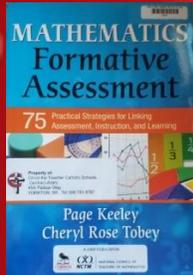
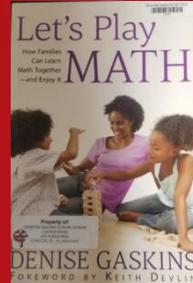
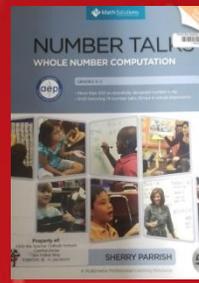
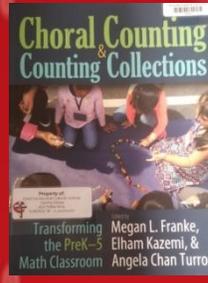
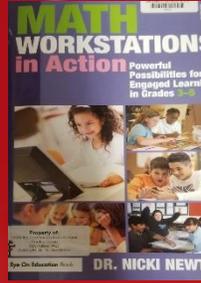
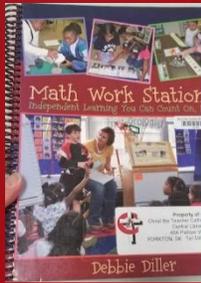
the subscript (from Sask Math Teachers' Society)

Bite-sized ideas for your math classroom.

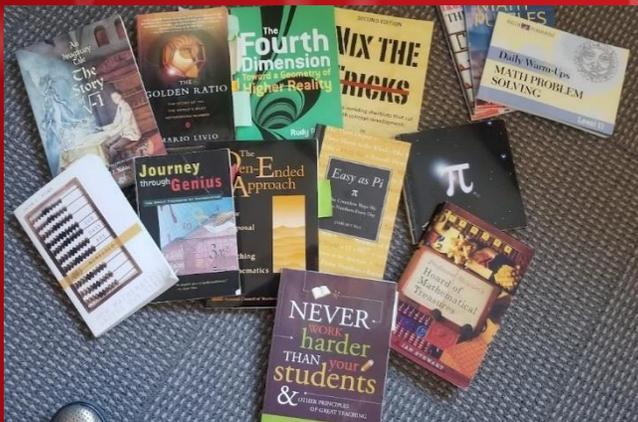
- British Columbia teacher [Janice Novakowski](#) shares her work with primary learners and Numicon blocks in [this short blog post](#) (that includes some task cards she created).
- [Graham Fletcher](#) shares how [he encourages productive struggle](#) with the popular [Open Middle](#) math prompts.
- Ontario high school teacher [Andrea Birg](#) shares her prompt to introduce the distributive property to her Grade 9s in [this Twitter thread](#).
- Listen to [this podcast episode](#) where SMTS director [Lana Steiner](#) talks about capturing evidence from conversations and observations in the math class.
- The [Making Math Moments Virtual Summit](#) was held on November 13th-14th. The sessions are archived and can be viewed, you just need to register. First 30 days are free and cancel any time.



We have a fabulous and underused resource collection here at the Division Office library. These books are lonesome! Why not take one home for the holidays? Click each image for more info:



For fireside reading, maybe you'd like to borrow something from my personal collection!



I also just bought the game "Prime Climb"—a great tool for learning factors, multiples, prime numbers, multiplication and division. Care to borrow it to let kids play? I'd love to see how they like it!



Also: I can lend you some money! I bought some "teaching" money on Amazon. I tried to use it to Christmas shop, but the stores wouldn't take it and one place called the police. So maybe you'd like to borrow it to let kids practice counting \$\$\$



If you would like to borrow any of these resources, either from the central library or from my bookshelf, just email or call me at the office, and I'll put it in interoffice mail for you!



Reindeer games:

HOLIDAY MATH RIDDLES!

FOR GRADES 1-8



<https://www.mashupmath.com/blog/christmas-maths-activities-riddles>

Christmas Math Puzzle

Use your math skills to find the value of each symbol and the "?".

$$\text{Tree} + \text{Tree} + \text{Tree} = 27$$

$$\text{Tree} + \text{Star} + \text{Star} = 29$$

$$\text{Santa} = \text{Star} - \text{Tree}$$

$$\text{Tree} + \text{Santa} + \text{Star} = ?$$

Write your answers:

 =	 =	 =
---------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

www.lemonandkiwidesigns.com

www.solvemoji.com - HARD

SOLUTIONS, PUZZLES & LEADERBOARDS ONLINE

$$\text{Light} + \text{Reindeer} \times \text{Light} = 328$$

$$\text{Light} + \text{Light} + \text{Light} = 26$$

$$\text{Light} + \text{Light} + \text{Reindeer} = 46$$

$$\text{Reindeer} \times \text{Light} \times \text{Light} = ?$$

Puzzle ID: 8267

Solvemoji.com



Let your students try these challenge problems, and for any who get them right, email their names to me at the division office, and they can enter to win a cool prize!
(Left puzzle up to grade 6 only) Smitc01@cttcs.ca

For Pre-K, K

<https://teachingmama.org/wp-content/uploads/2015/12/Christmas-Math-Printables-Preschoolers.pdf>

For Middle Years: <https://ideagalaxyteacher.com/12-christmas-math-activities/>

Free games from

Christina Tondevold

[Click here](#)



HAPPY
NEW YEAR
2022

Coming January 31/2022 , CTTCT is excited to
bring you

Power of Ten

MEANINGFUL PROBLEM SOLVING

Improving the way we teach math.

Power of Ten Educational Consulting Ltd. is a proudly Canadian company, developed in Victoria, BC. The cards are printed in Camrose, AB. The business is operated out of Ottawa, ON.

Power of Ten offers on-going support in the form of workshops, in-class demonstrations, virtual support sessions, newsletters, as well as phone and email. Support is offered in English and French.

Since Power of Ten is a visual approach to mathematics instruction and learning, the cards are language neutral and can be utilized in classrooms worldwide. Activities are readily adaptable to non-French or non-English language instruction.



Power of Ten is a Canadian program that supports teachers in developing students' numeracy. Early number sense, with a focus on ten frames and "making ten", helps learners establish a firm foundation for mathematical reasoning. As the learning continuum progresses through the grades, the program expands to place value, operation, fractions, decimals and percents. Power of Ten embraces the philosophy that fluency is important, and fluency is rooted in strong mental models and flexible reasoning. Games are an important component of the program—you will learn games that you can use in your classrooms and in guided math stations.

On our January 31 Professional Development day, Anita Horsman will present to **Grade 5 – 9 teachers from 10:45 am till 12:00 noon, and Pre K – 4 teachers from 1 pm to 3:30 pm.**

[Visit the power of ten web site here](#) to learn more

Anita also hosts weekly "[Q and A](#)" sessions. Feel free to attend one!

I will send a link ahead of time. You may like to arrange to take this in the same room as other attendees in your school, as I hope to have some of the teacher resources ordered and delivered to you ahead of time

"The Power of Ten Resource is a highly visual approach to teaching math. I am amazed how fast struggling students develop subitizing and fact fluency by using the games and making the connections to basic fact mastery by connecting the games to the All the Facts for adding, subtracting, multiplying and dividing. In one year of tutoring, my student has come from mid grade one to comfortable grade 4. She has confidence and strategies to solve problems as they are presented. Next to gym, math is her favourite subject. After 6 months working with this student, I asked her how many questions she thought she got correct. Her answer was a surprised look and a confident "all of them!" and she was right. A great resource for all classrooms to foster the love of math and the I Can do attitude without fear of failure." -Ellen, Retired Teacher, Moncton, NB

For grades 5 – 10 teachers: **Game-Based Learning in Middle Years and High School** by Kirsten Dyck



Developing mathematical fluency through intentionally planned games brings an element of joy and engagement to our math classrooms. Using a variety of low prep math games, explore how these activities encourage student reasoning and strike a balance between automaticity, fun, and rigour. Learn, play, and take away games for your own classroom.

Kirsten Dyck seeks to provide rich and engaging mathematical opportunities for her students as a middle years teacher in rural Saskatchewan. She also supports professional learning and development in her shared role as a Strategic Facilitator for Numeracy across her school division. She is passionate about using math games to encourage both fun and fluency in her classroom. Kirsten and her husband are raising their three active teenagers on an acreage near Saskatoon.

This workshop is offered to Grades 5 – 10 teachers on January 31 from 1:00 till 2:30 pm. This is an optional workshop, but I really hope you decide to join us! Kirsten has presented virtually for the Sask Math Teachers' Society, and her evening workshops are very well attended by teachers across the province.

Arranging math PD that includes games for the classroom is in response to what teachers in CTICS are requesting.

******Please sign up for this workshop in advance by clicking the link:**

<https://forms.gle/GrNqxojezsstVWzG6>

All math workshops on Jan 31 are virtual. I will send a link out ahead of time.

I wish each of you a very restful and restorative Christmas season.

Thank you for everything you do for our students!

And have a very Happy New Year!

-Cindy

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306-783-8787

@CindySmith

