

Cultivating Curiosity and Competencies in Mathematics


What resources support educators in developing wise practice, aligning with core values?

What do we believe about teaching mathematics?

How can we support students in their mathematical journeys?

The [Island Numeracy Network](#) created this document, compiling respected & recommended resources for teachers to access, explore and offer learners.

"Ideas and strategies [for] vibrant classrooms" T. Zagar (2016)

| Early Years Primary/Intermediate/ Middle School/Secondary | Yes, these resources are in my repertoire | Resources to explore & add to my repertoire |
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| <p>Resources:</p> <p>Marian Small Open Questions WNCPEditions P/I/MS Carole Fullerton Good Questions Fr/En P/I/MS John Van de Walle P/I/MS</p> <p>DREME Early Math Ed. Early Childhood Maths EY Jo Boaler Youcubed K-12 Robertson Program – spatial reasoning K-7 Educating Now K-12 Necessary Conditions Sec. Tracey Zagar K-12</p> <p>Instructional Routines: Steve Wyborney K-8 Graham Fletcher K-8 Math Flips K-8 NRICH K-12 JRME K-12 Problems Worth Solving P/I/MS Open Middle K-12 Estimation 180 I/MS/Sec Which One Doesn't Belong K-12 Fraction Talks I/MS Waterloo Math Problems of the Week Fr/En I/MS/Sec NTimages Fr/En P/I/MS Math for Love P/I</p> |  | |
| <p>Professional Learning (webinars, podcasts, courses):</p> <p>Building Thinking Classrooms Jon Orr & Kyle Pearce Berkely Everett Pam Harris Christina Tondevold Ann Elise Record Fawn Nguyen</p> | | |

Technology:

[Desmos](#) Fr/En I/MS/Sec
[Geogebra](#) I/MS/Sec
[Stick and Split](#) I/MS
[Braining Camp](#) (manipulatives & webinars) P/I/MS
[ReimaginED \(bead string\)](#) P/I/MS
<https://mathigon.org/> site all ages; courses MS/I/Sec

District Numeracy sites:

[NLPS](#)
[Learn71](#)
[Richmond Schools](#)
[Delta](#)

Other sites with BC curriculum focus:

[BC Numeracy Network](#) K-12
<https://startingwiththebeginning.wordpress.com/> Early Learning
<http://www.meaningfulmathmoments.com/> K-7
<https://www.peterliljedahl.com/teachers/numeracy-tasks> K-12

Publisher Resources

Taking Shape (Pearson 2016)
Mathology (Pearson) K-3 Complete/robust/substantial cost
Math Place (Scholastic) Gr. 1-3 Number & Operation/Spatial Reasoning/Data & Probability
Math Up (Rubicon) K-9

"The conversation is also switching from debates about *how to teach* to collaborative discussions about the *impact of teaching*. This has led to many valuable implications, especially helping educators focus on teaching the strategies of learning; recognizing the emotion of learning and discovery; and focusing on growth, progression and being ... transparent with students about success criteria for their work."

Educational Leadership May 2021 Kraft and Hattie p. 18