

MATH ENRICHMENT RESOURCES

Curriculum

The New York State Education Department contracted with the nonprofit Great Minds in 2012 to create a mathematics curriculum called *EngageNY*, now known as *Eureka Math*. This curriculum has been utilized successfully in the advanced math classes at Bath Elementary since 2014. The curriculum is available on both the [EngageNY](#) and [Great Minds](#) sites for free download.

[EngageNY Gr. 3 Math Modules](#)

[EngageNY Gr. 4 Math Modules](#)

[EngageNY Gr. 5 Math Modules](#)

[EngageNY Gr. 6 Math Modules](#)

[Eureka Math card games](#)

[Common Core Math Worksheets](#)

Zearn Math

A complete K-5 math program that provides free Common Core aligned math lessons, personalized to individual learners, and based on Eureka Math. Lessons focus on three critical components: deep understanding, fluency, and problem-solving.

[ALEKS](#) – Endorsed by current and former advanced math students, this is a web-based assessment and learning system from McGraw-Hill for grades 3-12 that uses adaptive questioning to determine students' needs. It also instructs students on topics they are most ready to learn. Free trial offered; cost: \$.

[Khan Academy](#) - Khan Academy is a non-profit educational organization that provides free video tutorials and interactive exercises. High quality and still free!

Math Competitions

[Noetic Learning](#) – Provides various standards-based supplemental resources to support the learning, teaching, and appreciation of math for a cost \$. Advanced 4th grade math students have competed in the math contests for the past 6 years.

[Math Olympiad for Elementary and Middle Schools \(MOEMS\)](#) - Explore mathematical concepts while developing flexibility in solving non-routine problems with multiple solution paths. Bath Elementary has sponsored a 5th grade team for the last 15 years. Free monthly questions and practice problems on website. Books with practice contest

problems available at a cost \$. (Used copies have been found on eBay or borrowed from public libraries.)

Publishers - Specialize in gifted, advanced, and creative/critical thinking resources and games. Cost \$.

Prufrock Press

Pieces of Learning

The Critical Thinking Co.

MindWare

Advanced math favorite workbooks:

Singapore Math Practice, Singapore Math Word Problems, Singapore Math Mental Math - Provides students with math practice while developing their analytical and problem-solving skills.

Challenge Math – A series by Edward Zaccaro that offers material that goes beyond calculation skills for those children who already know basic concepts.

Mind Benders – Deductive thinking puzzles that develop logic, reading comprehension, and mental organizational skills.

Perplexors – Story problems that require deductive reasoning, logical elimination, and math skills.

Red Herrings – Mysteries that develop inferential and deductive thinking skills.

Advanced math favorite **Apps**:

Hands-On Equations Lite - A free first introduction to algebra.

Hands-On Equations, Levels 1, 2, and 3 (Cost \$)

Mathigon – Solve problems, explore simulations, find patterns, and draw conclusions through an interactive textbook.

Advanced math favorite **Board Games**:

EQUATE, SMATH, Proof!, Kakooma, 24 Game

Advanced math favorite **Websites**:

[60+ Best Math Websites](#) - A list of teacher-approved sites that includes resources, games, freebies, and innovative programs for learning math. Many of the mentioned sites are utilized by Bath teachers.