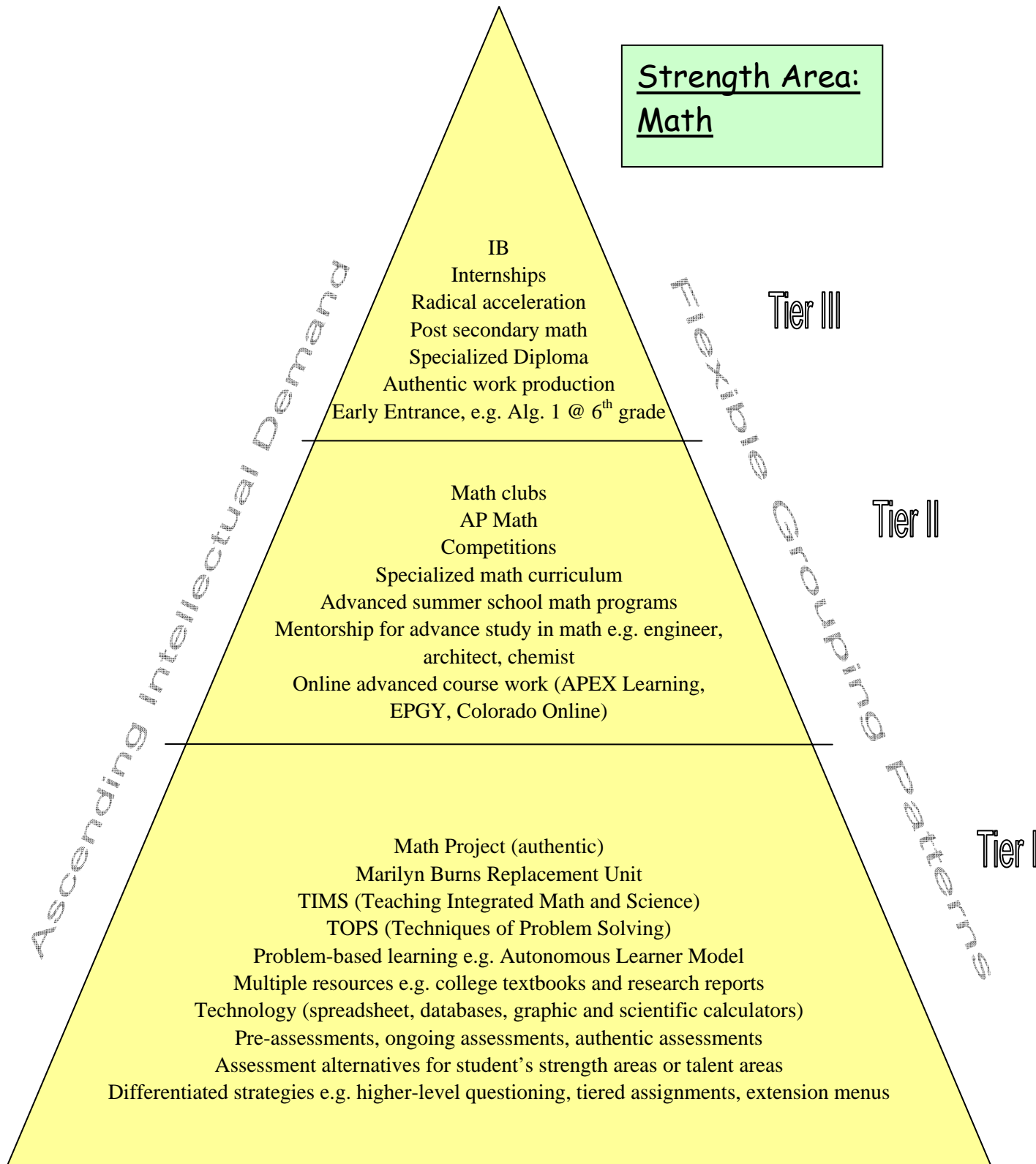


Strength Area:  
Math



Partnerships: Home, School & Community

## Frequently Asked Questions

*Math class is a problem-solving experience. Do gifted students still need a differentiated program?*

Advanced students require sophisticated and authentic problem-solving experiences that challenge them to work toward diverse solutions.

*How might the school system support advanced math exceptionalism?*

The school needs to have a procedure for radical acceleration for grades K-12. Part of the plan would include careful assessment and ongoing assessment as the student progresses through the program. A K-12 plan must be developed considering the options listed on the strength area (triangle) for Math. The plan should be developed in concert with parents, student, and teacher(s) which will keep all parties at all grade levels informed. Materials and resources must be available for accelerated math students where they are needed. Teachers must be willing and able to teach accelerated mathematics.

## Resources

American Mathematics Competitions (middle and high school): <http://www.unl.edu/amc/>

American Regions Mathematics League (high school): <http://www.armlmath.org/>

CTY Distance Education Program in Math, John Hopkins University: [ctyinfo@jhu.edu](mailto:ctyinfo@jhu.edu)

Education Program for Gifted Youth (EPGY), Stanford University. Distance learning advance courses K-12 in Math, Physics, English, and Computer Science: [www.epgy.stanford.edu](http://www.epgy.stanford.edu)

First LEGO League (FLL) Jr. Robotics Competition (ages 9-14): <http://www.firstlegoleague.org/>

International Mathematics Olympiad; 800-527-3690.

Jarwan, F. & Feldhusen, J. (1993). Residential Schools of Mathematics and Science for Academically Talented Youth: An Analysis of Admission Programs. Storrs, CT: The National Research Center on the Gifted and Talented, University of Connecticut.

Marilyn Burns Education Associates: [www.mathsolutions.com](http://www.mathsolutions.com)

MATHCOUNTS, National Society of Professional Engineers Information Center (middle grades math competition): <http://www.mathcounts.org/>

Math Mind Benders Grades 3-12: [www.mindwareonline.com](http://www.mindwareonline.com)

National Engineering Aptitude Search: <http://www.jets.org/>

Stock Market Game Worldwide (Grades 4 - College): <http://www.smgww.org/>

Summer Program in Math. John Hopkins University: [ctyinfo@jhu.edu](mailto:ctyinfo@jhu.edu)

Study of Mathematically Precocious Youth (SMPY), John Hopkins Center for Academically Talented Youth (CTY). John Hopkins University. Baltimore, MD. Program offered in several states.

Stanley, J. C. (1991). An Academic Model for Educating the Mathematically Talented. *Gifted Child Quarterly*, 35, 36-42.

Stanley, J. C. (1991). A Better Model for Residential High Schools for Talented Youth. *Phi Delta Kappan*, 72, 471-473.

Tallent-Runnels, M. & Candler-Lotven, A. (1996). *Academic Competitions for Gifted Students: A Resource Book for Teachers and Parents*. Thousand Oaks, CA: Corwin Press, Inc.

The Math Forum, Math Education Community Center: [www.mathforum.com](http://www.mathforum.com)

24 Games (elementary - high school): <http://www.24game.com/>

