



Riverbend Community Math Center
Math and Technology Academy

Blueprint for Success

RAISING THE BAR ON EDUCATION

riverbendmath.org



CONTENTS

| | |
|--|-----------|
| Our Mission | 3 |
| Our Vision and Long Term Goals | 5 |
| 1 Promote Effective Math Education | 7 |
| 2 Inspire Enthusiasm and Confidence | 9 |
| 3 Foster Improved Collaboration | 11 |
| 4 Promote Awareness | 13 |
| 5 Generate Sustainability | 15 |



OUR MISSION

The Riverbend Community Math Center is a non-profit organization dedicated to increasing public understanding and appreciation of mathematics. With technology-related fields becoming increasingly important in our economy, people need more opportunities to learn that math can be fascinating and that it can lead to rewarding careers. The Riverbend Community Math Center fills this need by providing people of all ages with experiences that build interest and confidence in mathematics, science, engineering, and technology.





1 PROMOTE EFFECTIVE MATH EDUCATION

by working with and training pre-service teachers, current teachers, curriculum leaders, school administrators, and faculty at local universities.



2 INSPIRE ENTHUSIASM AND CONFIDENCE

in mathematics by working with community businesses and organizations to increase public access to high quality math education, tutoring, and innovative hands-on programs.

OUR VISION AND LONG TERM GOALS



3 FOSTER IMPROVED COLLABORATION

among educators and mathematicians.

4 PROMOTE AWARENESS

of the regional economic importance of math-related skills.

5 GENERATE SUSTAINABILITY

to maintain the center and to enhance future growth.



PROMOTE EFFECTIVE MATH EDUCATION



Pre-service Education Programs—

Collaborating with local colleges to improve math and science instruction for future educators.



Professional Development—providing on-site training for teachers to implement effective math techniques in the classroom.



Professional Consultation—working with curriculum leaders, school administrators and faculty at local universities to improve and develop effective math curriculum.



2

INSPIRE ENTHUSIASM AND CONFIDENCE

The Math and Technology Academy is a comprehensive after-school program designed to optimize students' understanding and appreciation of mathematics, science, engineering and technology. Students have the opportunity to participate in fun activities designed to build conceptual understanding of place value, arithmetic, fractions and algebra. These activities include the use of hands-on manipulatives, such as exploring the mathematics behind polyhedra they build from origami or plastic Polydrons, learning to solve a Rubik's Cube, designing and building a binary calculator or a stop light using digital electronics components, learning to program using Turtle Logo, designing and programming Lego Minds form robots, or using a motion detector to build intuition for algebra and calculus.



3

FOSTER IMPROVED COLLABORATION

We collaborate closely with several local school districts to consider ways to improve math instruction. We regularly visit classrooms, consult with teachers and administrators, lead professional development workshops, and model lessons in classrooms. Each summer, we collaborate with local university partners to offer professional development workshops on best practices in math instruction.



4

PROMOTE AWARENESS

The Riverbend Community Math Center has partnered with several local organizations to improve math instruction in vocational and adult education programs. We worked with the Indiana Plan to assist adults interested in pursuing careers in the building trades. We collaborated with South Bend Community School Corporation to investigate ideas for improving math instruction in GED programs and Career and Technical Education programs. We have also worked with the Apprentice Academy to offer math classes for displaced workers.

Every year, we participate in community events such as Art Beat, Rum Village Fall Festival, ETHOS Science Spooktacular, Science Alive, and Science Olympiad. We also bring hands-on activities to math and science nights, company parties, and to groups of all kinds.

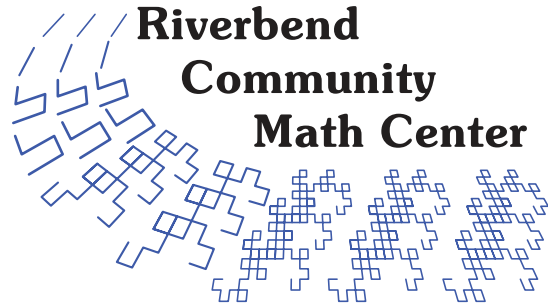


5

GENERATE SUSTAINABILITY

The Riverbend Community Math Center is a non-profit organization. Funding is provided primarily by people and institutions served by the Math Center. We also pursue grant opportunities both as an individual organization and as part of larger collaborations. Additional funding is provided by private and corporate donors





Executive Officers

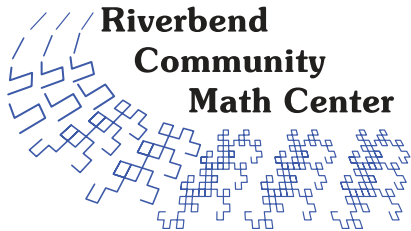
Executive Director:Dr. Amanda Serenevy
Treasurer: Dean Serenevy
Secretary: Bonnie Schermer

Board of Directors

| | |
|-------------------|----------------|
| Dr. Ronald Barker | Dr. Anne Brown |
| Caryn Ellison | Tom Hall |
| Charlotte Pfeifer | |

1021 Queensboro
Mishawaka, IN 46544
(574) 339-9111

www.riverbendmath.org



**Riverbend
Community
Math Center**

1021 Queensboro
Mishawaka, IN 46544
(574) 339-9111

www.riverbendmath.org