

MindSET FAQs

What is the TBPI MindSET Program?

MindSET is a program designed to get K-12 students interested in careers in the STEM disciplines. The program focuses on using hands-on learning techniques to help K-12 students understand math and science concepts and see how they can be applied in the real world. MindSET provides teacher training, parent workshops, and student modules to help students prepare to study math and science in college.

Which students does MindSET target?

MindSET is open to all students and participation is free. The MindSET program primarily targets students who are off-track for completing higher-level math and science courses, or who lack the motivation to excel in math and science, including women, minorities, and other populations that are under-represented in the STEM disciplines.

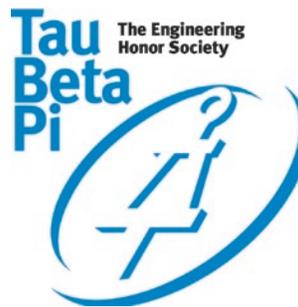
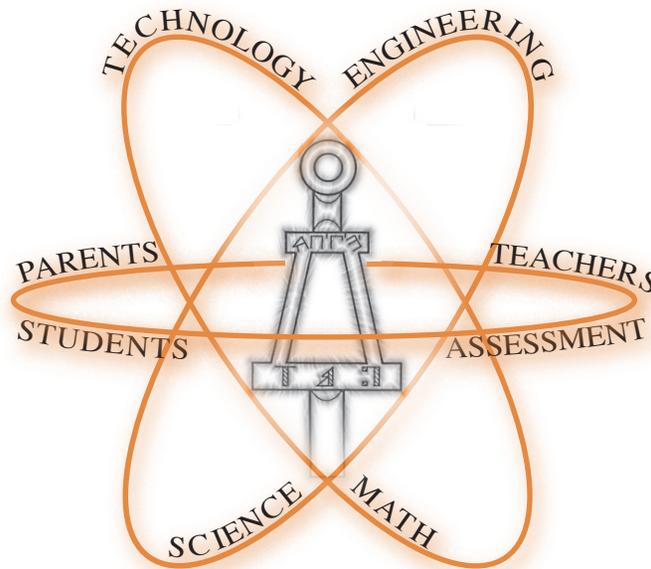
How can I get involved?

- Start a MindSET project at your chapter
- Help support a MindSET program — volunteer your time or provide funding
- Help design new student modules
- Encourage K-12 students to participate in the program
- To get involved, email TBPMindSET@tbp.org



Contact the Tau Beta Pi Association at TBPMindSET@tbp.org or 800/TAU-BETA.

The **MindSET Program** is modeled on the engineering GatorTRAX Program developed at the University of Florida College of Engineering, funding from the GE Fund.

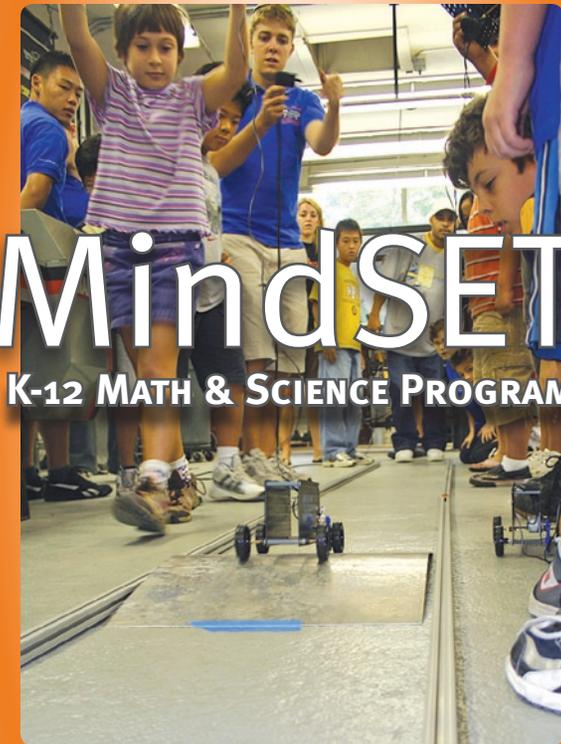


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MindSET

K-12 MATH & SCIENCE PROGRAM

In partnership with participating school districts, **Tau Beta Pi** offers the **MindSET Program** to establish and support math and science intervention programs that contribute to the enhanced preparation of K-12 students.

TBP K-12 PROGRAM



Tau Beta Pi is aware of the challenges faced by students in the United States, with respect to their preparation for careers in Science, Technology, Engineering, and Mathematics (STEM) disciplines.

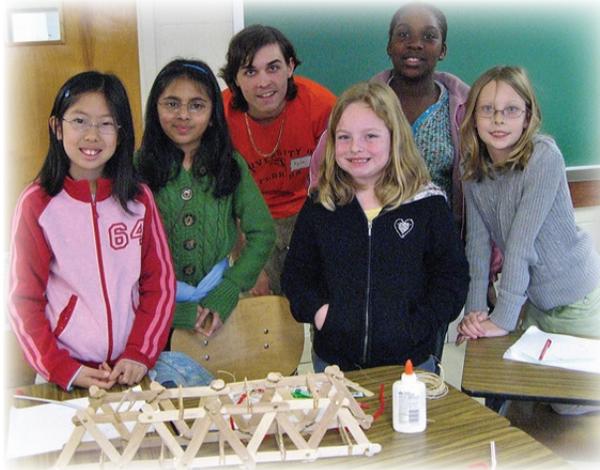
In response, Tau Beta Pi is offering a National K-12 Math & Science Initiative to help address these challenges by engaging the creativity and resources of Tau Beta Pi members. With chapters and motivated members across the nation, Tau Beta Pi is well positioned to make a positive impact on K-12 students and future engineers through the **MindSET Program**.

Mission

The **MindSET** program's mission is to establish and support math and science intervention programs that contribute to enhanced preparation of students in the K-12 system, thus enabling them to pursue careers in STEM disciplines, preparing them for competitive success in the global marketplace, and equipping them for driving the nation's economy.

Goals

The primary **MindSET** goal is to increase the number of students in the K-12 system that successfully complete higher-level math and science courses prior to graduation from high school. Specifically, more 8th graders must complete Algebra 1 and more 12th graders must complete calculus.



Objectives

The four primary objectives of **MindSET** are:

- Support teams or individual Chapters in implementing K-12 projects.
- Provide training and support for K-12 math and science instructors.
- Develop and provide programs to assist parents in improving their understanding of student needs and educational system issues.
- Identify funding sources to support the program.

Components

Teacher Development

- MindSET offers teacher training sessions that expand K-12 instructors teaching methods to include kinesthetics.
- K-12 schools select the training dates and Tau Beta Pi organizes and funds the training sessions.

Parent Development

- MindSET volunteers hold workshops for parents to learn how to better help their children succeed in the classroom.
- ▶ Typical 1-hour workshop focus, on topics such as:
- Studying for and taking tests
 - College Knowledge 101
 - Seven habits of highly effective students
 - 25 ways parents can motivate children
- ▶ Workshops are free and open to all K-12 parents.

Student Development

- MindSET volunteers host lab sessions using modules that teach K-12 students math and science concepts and then apply those concepts to hands on activities.
- Module activities include things like building a bridge, designing a catapult, and making a water bottle rocket.
- Lab sessions are free for students, and parents are welcome to attend.

MindSET Results

- MindSET tracks participating K-12 student progress to ensure the program is achieving its goals.

