



MATHEMATICS EDUCATION TRUST

Classroom Research Grant 7-12

PURPOSE:

The purpose of this grant is to support and encourage classroom-based research in precollege mathematics education in collaboration with college or university mathematics educators.

SUPPORTED BY: E. Glenadine Gibb Fund and NCTM

GRADES: 7-12

GRANT AMOUNT: Maximum of \$6,000

DEADLINE: November 1

ELIGIBLE APPLICANTS:

- The primary applicant may be either a mathematics educator or a classroom teacher currently teaching mathematics at the grades 7-12 level.
- No person(s) may receive more than one award administered by the Mathematics Education Trust in the same academic year.
- Past recipients of this grant are not eligible to reapply.

INDIVIDUAL AWARD OR ORGANIZATIONAL AWARD: Organizational

For the purposes of MET grants, an organization is defined to be a school, school district, university, or non-profit mathematics education organization. The primary applicant MAY indicate an organization to administer the finances of the grant when applying for the grant. If the primary applicant chooses to administer the finances of the grant, they are responsible for reporting this award to the IRS on their personal tax return.

MEMBERSHIP REQUIREMENT:

The applicant must be a current (on the day of the application) Essential or Premium member of NCTM.

GENERAL PROPOSAL INFORMATION:

- The research must be a collaborative effort involving a college or university mathematics educator (a mathematics education researcher or a teacher of mathematics learning, teaching, or curriculum) and one or more grades 7-12 classroom teachers (individuals who spend half or more of their work time teaching in the classroom).
- The proposal may include, but is not restricted to, research on the following topics:
 - Curriculum development and implementation
 - Involvement of at-risk students or students from diverse backgrounds and experiences
 - Students' thinking about a particular mathematics concept or set of concepts
 - Connection of mathematics to other disciplines

AWARD APPLICATION INFORMATION

- Focused learning and teaching of mathematics with embedded use of technology (any acquisition of equipment must support the proposed plan but not be the primary focus of the grant)
- Innovative assessment or evaluation strategies
- Involvement of preservice teachers is encouraged but not required.
- This research should lead to a draft article suitable for submission in the *Mathematics Teacher Educator*, *Journal for Research in Mathematics Education*, or in *Mathematics Teacher: Learning and Teaching PK-12*.
- Proposals must address the following: research design, the plan for collecting and analyzing data, and the anticipated impact on students' learning.
- Project activities are to be completed between June 1 and May 31.

PROPOSAL COMPONENTS:

Use the components below to outline your proposal. See rubric for additional information.

I. Proposal (Five pages maximum; single-space, 12 font, 1 inch margin)

A. Plan

The Proposal must be a collaboration by university faculty and classroom teacher(s) that:

- Describe the research question(s) to be investigated, providing a clear picture of the project's objectives.
- Include a summary of related research literature.
- Describe the data collection and analysis methods to be used.
- Include a detailed plan for carrying out the work and a projected timeline for completion of the project.

B. Outcomes

- Explain the hypotheses and how you expect to assess the project's outcomes.
- Describe how the results of the research will be used and shared.

II. Budget (Two pages maximum; table format)

- No indirect costs are permitted.
- Include an itemized budget, presented in line-item table format.
- If the total budget for a proposed project is greater than the grant maximum, indicate clearly what the grant funds will cover and what additional funding sources might be available to complete the total budget.
- Funds may be used for any reasonable project expenses, including stipends for participating researchers and collaborating teachers, which are well justified.
- Acquisition of equipment and conference attendance must support the proposed plan but not be the primary focus of the grant.
- Major technology needs should be covered by funds from other sources.

III. Background and Experience

Provide a one-page maximum vita, outline format preferred, for *both* the primary teacher applicant and university researcher that includes:

- Formal education: institution, type of degree, major, minor, and date each degree was granted.
- Professional experience related to this proposal. Indicate the school(s), teaching assignments, and other pertinent information, including continuing education and professional activities.

AWARD APPLICATION INFORMATION

IV. Letter of Support from Principal

Include a one-page maximum letter that:

- Is on official school letterhead and signed by the principal.
- Confirms the teaching status of the applicant.
- Indicates strong support for the proposal and the applicant's ability to accomplish it

V. Letter of Support from Higher Education Institution

- One-page maximum.
- Must be on official school letterhead and signed.
- Indicates strong support for the collaborative commitment of the university personnel and the potential success of the project.

FINAL REPORT REQUIREMENTS:

- Awardees will be required to submit a brief report (two single-spaced pages) and an itemized report of expenses with receipts. The final report detailing the results of the research and any anticipated follow-up activities must be filed within three months of the completion of the project, with submission by August 31.
- During the subsequent school year, awardees will be required to submit a draft of an article about the action research findings to be submitted for publication and the name of the place(s) submitted such as Mathematics Teacher Educator, the Journal for Research in Mathematics Education, or Mathematics Teacher: Learning and Teaching PK-12.

AWARD AND PAYMENT SCHEDULE:

- Award notification will be made by early February.
- Two-thirds of the approved budget, not to exceed \$4,000, will be paid in early May. The remainder will be paid on receipt of a final report and verified expenses (with receipts) related to the proposal.