



## MATHEMATICS EDUCATION TRUST

# Classroom Research Grants 7-12

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**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:** 6-8, 9-12

**GRANT AMOUNT:** Maximum of \$6,000 each will be awarded

**DEADLINE:** November 1

**ELIGIBLE APPLICANTS:**

- Mathematics educators or classroom teachers 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.

**MEMBERSHIP REQUIREMENT:**

- The primary applicant must be a current 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
  - 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.

## AWARD APPLICATION INFORMATION

### PROPOSAL COMPONENTS:

#### I. Proposal (Five pages maximum)

##### A. Plan

- Must be a collaboration between college or university mathematics educator and one or more grade 7 through 12 classroom teacher(s).
- Include project title.
- Describe the research questions to be investigated, providing a clear picture of the project's objectives.
- Include a detailed plan for carrying out the work and a projected timeline for completion of the project.
- Describe the data collection and analysis methods to be used.
- Include a summary of related research literature.

##### B. Outcome

- Explain the hypotheses and how you expect to assess the project's outcomes.
- Address the anticipated impact on students' learning.

#### II. Budget (Two pages maximum; table format)

- No indirect costs.
- Include an itemized budget, presented in line-item table format including funds requested from the Mathematics Education Trust and other sources of funds, if applicable.
- 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

- One-page maximum, outline format preferred.
- One for each applicant.
- Formal education: institution, type of degree, major, minor, and date each degree was granted.
- Teaching experience related to this proposal. Indicate the school(s), teaching assignments, and other pertinent information, including continuing education and professional activities.

#### IV. Letter of Support from Principal

- One-page maximum.
- Must be on official school stationery and signed by the principal of the cooperating school.
- Confirm the teaching status of the applicant.
- Indicate strong support for the proposal and the applicant's ability to accomplish it.
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#### V. Letter of Support from Collaborating Partner

- One-page maximum.

## AWARD APPLICATION INFORMATION

- Must be on official school stationery and signed.
- Confirm collaborative commitment to project.

### **FINAL REPORT REQUIREMENTS**

- Awardees will be required to submit a brief report (two to three double-spaced pages) and an itemized report of expenses. 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.
- A draft article suitable for submission to Mathematics Teacher Educator, the Journal for Research in Mathematics Education or Mathematics Teacher: Learning and Teaching PK-12 could be part of the final report.