



MATHEMATICS EDUCATION TRUST

Connecting Mathematics to Other Subject Areas Grant (9-12)

PURPOSE

This grant supports the development and implementation of high school lessons and/or materials that engage students in mathematical modeling and making interdisciplinary curricular connections.

SUPPORTED BY: Theoni Pappas Fund

GRADES: 9-12

GRANT AMOUNT: Maximum of \$4,000

DEADLINE: November 1

ELIGIBLE APPLICANT:

- Person or group currently teaching mathematics in grades 9-12
- A person or group may receive no more than one award administered by the Mathematics Education Trust in the same academic year.
- Past recipients of this award are not eligible to reapply.

AWARD TYPE: Organizational

For MET grants, an organization is defined as a school, school district, university, or non-profit mathematics education organization. The primary applicant will indicate an organization to administer the finances of the grant when applying for the grant. The primary applicant MAY choose to administer the finances of the grant themselves; if so, they are responsible for reporting this award to the IRS on their personal tax return as income.

MEMBERSHIP REQUIREMENT:

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

GENERAL PROPOSAL INFORMATION:

- Materials/lessons may be in the form of e-booklets, videos, or physical models that represent and help mathematize real-world problems and lead to a solution.
- The focus of these materials should be on mathematical modeling and the connectivity of mathematics to other fields or to the world around us, including new discoveries in mathematics.
- Mathematical modeling involves student choice, including the assumptions made in the posing of answerable questions in open-ended situations. The practice of modeling requires students to make sense of a scenario, identify a problem to be solved, mathematize it, apply the mathematization to reach a solution, and check the viability of the solution.
- Proposals must address the plan for developing and evaluating materials including a timeline with action steps, and anticipated impact on students' learning.
- Project activities are to be completed between June 1 and May 31.

PROPOSAL COMPONENTS:

AWARD APPLICATION INFORMATION

Use the components below to outline your proposal. Use the rubric to check that you have met the criteria for the grant before submitting your proposal

I. Proposal (Three pages maximum; Single Spaced, 12 font, 1 inch margin)

A. Plan

- Describe your experiences that led you to identify a need for these materials.
- Describe the plan in detail addressing goals and objectives, timeline, who will develop the materials and where they will be used.
- Include an outline of the planned materials, any initial work already done on the project, and how mathematical modeling will connect mathematics to other fields or to the world around us.
- Include a plan for evaluation of the materials.

B. Outcomes

- Describe the project's anticipated impact on students' learning of mathematics content and its connection to other fields and the world around us.

II. Budget (Two pages maximum; table format)

- No indirect costs can be included.
- Include an itemized budget, presented in line-item table format with justifications for each item. Items budgeted must be described in the narrative.
- 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.
- Any acquisition of equipment, conference attendance or stipends must support the proposed plan but not be the primary focus of the grant.

III. Background and Experience

Provide one-page maximum vita, outline format preferred that includes:

- Formal education including the institution, type and date of degree, major, and minor.
- Teaching experience related to this grant proposal, the school(s) where you teach and have taught, teaching assignments, and other pertinent information, such as continuing education and professional activities.

IV. Letter of Support from Principal

Provide a one-page maximum letter from your principal that:

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

V. Letter of Support from Teaching Colleague

Provide a one-page maximum letter from a colleague that is on official school letterhead and indicates strong support for the proposal.

FINAL REPORTING REQUIREMENTS:

Awardees are required to submit a brief report (two single-spaced pages) and an itemized report of expenses with receipts.

AWARD AND PAYMENT SCHEDULE:

AWARD APPLICATION INFORMATION

- Award notification will be made by early February.
- Two-thirds of the approved budget, not to exceed \$2,667, 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.