



NATIONAL HIGH SCHOOL AND JUNIOR COLLEGE

Mathematics Club

Mu Alpha Theta (M A Th)

This is your invitation to establish a chapter of The National High School and Junior College Mathematics Club, M A Th, in *your* school. The club, which is sponsored by The Mathematical Association of America, is a non-secret organization whose purpose is to stimulate interest in mathematics by providing public recognition of superior mathematical scholarship, and by promoting various mathematical activities. Its journal, *The Mathematical*

Log, is constantly being praised as an outstanding medium for up-to-date, understandable articles about mathematics of interest to high school students. There are now about 500 chapters in schools from Florida to Alaska, and in Switzerland, Puerto Rico and the Canal Zone. If your school can qualify, you owe it to your students to establish a chapter and to participate in their many stimulating activities.

I. Purpose of the Organization

The National High School and Junior College Mathematics Club, Mu Alpha Theta, was formed to engender keener interest in mathematics, to develop sound scholarship in the subject and promote enjoyment of mathematics among high school and junior college students.

National policy is determined by an eight-person governing council consisting of three national officers (president, vice-president, and secretary-treasurer), four governors elected for three-year terms, and a representative appointed by the Mathematical Association of America. The National Council of Teachers of Mathematics and the Mathematical Association of America each have the privilege of nominating two of the seven elected council members. Others are nominated by a committee of the club. Officers and governors serve without remuneration.

The governing council provides the following services for chapters:

1. Individual Membership Certificates and School Charters are issued by the national Secretary-Treasurer.
2. *The Mathematical Log*, official journal of the organization, is distributed free to the chapters. It is devoted to understandable articles on mathematics, both modern and ancient, which have

been especially written for the intended audience. The *Log* also contains current chapter news, news of regional and national meetings, suggestions of topics suitable for discussion at chapter meetings, discussions of recent books, periodicals, films, tape recordings, mathematical devices, and similar items of interest to the membership.

3. Assistance is given to chapters in securing outside speakers for local and regional meetings. Visiting mathematical lectureships will be established as soon as possible.
4. Up-to-date information about mathematical careers is supplied to each chapter.
5. Local newspapers are notified that a charter has been granted, and of the names of all students elected as full members.
6. Insignia pins and buttons are available from the L. G. Balfour Co.
7. A traveling library of several hundred modern mathematical books is available, without charge, to the chapters.
8. Regional meetings and other activities are constantly being arranged by the chapters with the assistance of the national officers.
9. Chapters are encouraged to make suggestions to the national officers concerning additional projects which they would like to see carried out. A sincere effort is made to be as helpful as possible.

II. School Qualifications for Chapters

Any high school, two-year junior college, or other academic institution giving training equivalent to one of these, may petition to have a chapter providing it meets the following minimum requirements:

1. At least three semesters of algebra, and two of geometry or their equivalent, and one semester of more advanced mathematics (or, in the case of junior colleges, courses including the calculus) must be offered. These requirements can *not* be fulfilled by courses in general mathematics, business mathematics, shop mathematics, or arithmetic.

2. During the two semesters preceding that in which a petition is submitted, the school must have employed at least one teacher whose primary teaching field is mathematics and *who has completed an undergraduate mathematics major or its equivalent* at an accredited college or university.

3. The Principal, or other chief administrative officer of the institution, must approve the petition.

4. An initial charter fee of \$2.00, along with the regular initiation fee of 75 cents for each member, must accompany the petition for a charter. (These fees will be returned if the governing council votes that the institution is ineligible for membership.)

5. A favorable vote of two-thirds of the governing council shall be required to elect a chapter to membership. Each petitioning institution will be notified as soon as possible whether or not a charter has been granted. This usually takes about 6 weeks.

6. The petition should be submitted (along with 8 carbon copies) on the enclosed form provided by the national office. The carbon copies may be on plain paper.

III. Qualifications for Individual Membership

The following minimum requirements for full and associate membership shall be common to all chapters. Each chapter shall have a faculty-student committee which will recommend possible members for the chapter's consideration. No student shall be recommended for consideration who does not meet the minimum qualifications. Additional requirements may be imposed by individual chapters.

(a) *Full Membership*: Senior high school students who have completed four semesters of college preparatory mathematics (this can be algebra or geometry in any sequence) and who are enrolled in the fifth semester are eligible for full membership providing their mathematical work and their general high school work were

done with distinction. (On the ABCDF grading scale, this shall mean a B average.)

Junior College students who have taken one semester of college mathematics with distinction and have a B average in all college work are eligible for membership.

(b) *Associate Membership*: Persons who have completed two semesters of algebra or their equivalent with distinction and who have enrolled in a third semester of mathematics are eligible for associate membership. *Associate members do not pay the 75 cents initiation fee* and are not registered with national headquarters. They are not entitled to vote on national policy. They are entitled to attend and be heard at meetings, and presumably are likely candidates for full membership.

IV. National Finances

There shall be *no* national annual dues. An initiation fee of 75 cents per full member shall be paid to the national secretary-treasurer for each person initiated into full membership, whereupon the secretary-treasurer shall issue a membership certificate to that member and place his name on the official roll. A \$2.00 charter fee shall be charged each new chapter at the time the official charter is first issued to the school.

Finances are supervised by the Controller's Office of The University of Oklahoma. Regular state supervised auditing service is provided, in addition to approved monthly machine accounting. Council approval is required for expenditures other than printing and metered postage, and the secretary-treasurer must make complete accounting to the Council.

V. Local Organizations, Officers, and Finances

Each chapter is free to set up its own organization, officers, and finances with the following restrictions:

1. Each chapter must have a semi-permanent faculty sponsor and the national office (secretary-treasurer) must be kept informed of the current faculty sponsor's name and address.
2. The minimum membership requirements set forth by the national office must be met by all initiates.
3. A complete and accurate list of all full member initiates, accompanied by their 75 cents initiation fees, must be received by the office of the secretary-treasurer *before* the initiation takes place.

4. Each chapter must hold regular meetings at periodical intervals and not merely consider itself an honor society for high grades. At the minimum, there should be one meeting every month.

5. Local chapters are encouraged to participate actively in the life of the school, providing stimulation of an interest in, and appreciation of, mathematics for all students.

6. Either the name National High School and Junior College Mathematics Club or Mu Alpha Theta may be used as desired.

VI. Governing Council

President: DR. J. C. EAVES, Department of Mathematics, University of Kentucky, Lexington, Kentucky.

Vice-President: EDWARD L. WALTERS, Head, Mathematics Department, William Penn Senior High School, York, Pennsylvania.

Secretary-Treasurer: JOSEPHINE ANDREE, Box 1155, The University of Oklahoma, Norman, Oklahoma.

Past President: DR. HENRY L. ALDER, Department of Mathematics, University of California, Davis, California.

Official Representative of the Mathematical Association of America: R. B. Deal, Department of Mathematics, Oklahoma State University, Stillwater, Oklahoma.

Governors:

NELLIE KITCHENS, Head, Department of Mathematics, Hickman High School, Columbia, Missouri.

CELIA KLOTZ, Department of Mathematics, State College of Washington, Pullman, Washington.

DR. FRANK HAWTHORNE, Supervisor of Mathematics Education, State of New York, Albany, N. Y.

WALTER CARNAHAN, 1932 Adams Drive N.M.S., Madison, Indiana.

Mathematics Club

Mu Alpha Theta (M A Th)

Petition for Charter

National High School & Junior College Mathematics Club
Josephine P. Andree, Secretary-Treasurer

SUBMIT ORIGINAL PLUS EIGHT (8) CARBONS ON PLAIN PAPER

The undersigned hereby petitions that _____, of _____
(name of school) (address of school)
be granted a chapter. The following information is submitted to guide the Governing Council in determining eligibility of the school.

1. Topics covered in the third semester of algebra:

Topics covered in two semesters of geometry:

Topics covered in more advanced mathematics course (or courses):

2. Total number of students graduated during each of the last three years: _____, _____, _____
Approximate enrollment in each of the courses outlined in (1) during each of the last three years:

3. Name of teacher employed for at least two semesters whose primary teaching field is mathematics and who has completed an undergraduate mathematics major or its equivalent: _____. Major Field of this teacher: _____
Highest degree earned: _____, in _____ at _____
(year) (name of University or College)

List of courses above calculus _____

4. Name of faculty-sponsor of the chapter: _____ Address _____

5. Attached is a certificate order blank giving names of all full-member initiates. The Charter fee of \$2.00, plus 75 cents initiation fee for each full member, totaling \$ _____, is enclosed.

Very truly yours,

Signature

This petition is approved by the principal of the school.

Signature of Principal or Chief Administrative Officer

Order Blank
for
Charter Member
Membership Certificates

(Please type. Check spelling and addresses with care)

Date of order _____

Name of Chapter _____
(School) (City) (State)

Name and address of faculty-sponsor to whom certificates should be sent:

Name _____

Address _____
(City) (State)

Date of initiation _____ Number of initiates _____ Amount enclosed (\$.75 per person) \$ _____

First name	Middle Initial	Last name	Home address	Expected year of graduation
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				

(Attach a separate sheet if more space is needed)

I hereby certify that the above named students meet all of the qualifications for full membership in Mu Alpha Theta and have been declared Charter Members.

Faculty Advisor

Mu Alpha Theta
National High School & Junior College Mathematics Club
Box 1155, The University of Oklahoma
Norman, Oklahoma

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Attention Mathematics Teacher
Please pass this on, if you have one.