

Mu Alpha Theta National Convention 2020

Sheraton Myrtle Beach Convention Center Hotel

Myrtle Beach, SC July 19-24

50th Annual Mu Alpha Theta National Convention

Host: Rob Snow, Deerfield Beach HS robsnow23@yahoo.com

Test Coordinator: Radleigh Santos, American Heritage Plantation famatstatetests@gmail.com

Please see Mualphatheta.org for updates or changes.



Competitors

All competitors must be registered members or associates of Mu Alpha Theta.

Competitions

The convention will include math competitions at three levels as well as Topic Tests, Poster, Chalk Talk, Hustle, Relay, Interschool Contest, Speed and Mental Math. Each school is invited to bring competitors in **Mu (Calculus)**, **Alpha (Pre-Calculus)**, and **Theta (Algebra II/Geometry)** divisions. The division in which students will compete is determined by the math course they are enrolled in as of May 1, 2020.

Registration Fees

The \$600 fee must be postmarked no later than May 15. Registration fee includes convention activities, t-shirt, and most meals (see schedule). Single rooms for sponsors are available at an additional cost of \$400.

REGISTRATION DEADLINE: May 15, 2020, for online AND paperwork registration materials.

ADDITIONAL ROOM NIGHTS must be paid to hotel by May 1, 2020.

Send in one envelope to the
National Office:

Full payment
Final Registration Form (p. 18)
Participant Waiver and Release (p. 19)
Student Participation Forms (p. 21)
Medical Release Forms (w/ medical card copies) (p. 22)

Postmark deadline
May 15, 2020:

Mu Alpha Theta
c/o University of Oklahoma
3200 Marshall Ave, Suite 290
Norman, OK 73019

Registration

There are 2 components for registering all participants for the convention.

1. All participant information must be **input online** at www.mualphatheta.org. This site will be available beginning March 16, 2020. Names of students attending, division for each student, topic test sign up, chalk talk sign up, t-shirt sizes, travel information, rooming information, and other information is input online.
2. **Medical forms/Participation forms** must be completed for each competitor and sponsor and mailed to:

Mu Alpha Theta
c/o University of Oklahoma
3200 Marshall Ave, Suite 190
Norman, OK 73019

Forms must be notarized and a copy of the medical/health card (both sides) must be attached for those who have medical insurance. Sponsors should keep a copy of these forms to carry while traveling.

Accommodations

All accommodations for students will be four to a room. Sponsors will be placed two to a room. **Additional nights will be available three nights before and after the convention at \$161.62/night, which includes all taxes and fees.** There are a limited number of rooms available at this price. If any school wants to reserve extra nights, please email Rob Snow at robsnow23@yahoo.com and he will provide the hotel contact. Sponsors preferring a single room will have an additional fee of \$400.

Parking

Parking is available at the hotel for \$8 for cars per day.

Transportation

Shuttle buses, provided by the convention, will run from the Myrtle Beach airport to the hotel on Sunday, July 19 (10 am - 4 pm), and to the airport from the hotel on Friday, July 24, until noon. The convention will transport participants as early as 4 am on Friday for early flights. Sponsors need to put their arrival and departure times online. There will be staff at baggage claim to help guide schools.

Schools arriving or leaving outside of these time windows are responsible for their own transportation. We highly recommend that you arrive at the convention on Sunday, July 19, by 6pm so your students can get the most out of opening day.

Sponsor Duties

The convention needs all sponsors to help with running all competitions and activities. Sponsors will be assigned duties throughout the convention.

Excursions

On Wednesday July 22, schools will have the opportunity to attend one of the following.
 1) Myrtle Waves Water Park (myrtlewaves.com). Each attendee will have a ticket into the water park and a hamburger/hot dog buffet lunch at the park (vegetarian option available).

2) Dave and Busters. Each attendee will have a sandwich buffet lunch (vegetarian option available) and a game card to use. The game card will have \$15 worth of game chips for the games where you win tickets and the attendees will have UNLIMITED access to video games that don't win tickets with the card.

If schools wish to attend Dave and Busters at another time during the convention, cards are being sold for \$23. This card would give you 101.4 chips for games that win tickets and UNLIMITED access to video games that don't win tickets. The cards can be purchased when you pay your registration for the convention.

Rooming Assignments (to be done online)

All students will be assigned 4 to a room and sponsors will be assigned 2 to a room (unless you pay for a single). For example, if you have 12 boys, you will have three rooms with 4 boys each. Please complete rooming assignments online. If you have fewer than 3 students (of the same gender) from your school in a room, then they will be matched up with students from another school. If you wish to request that your students share a room with a specific school, you may do so online. Please make sure to communicate with the sponsor of that school to ensure they request the pairing as well. Again, if a sponsor would like an individual room, the cost is an additional \$400. Depending on space, your chapter may be assigned to a nearby overflow hotel.

Registration/Check Out Time

Registration for the convention will start at 1pm on July 19. Check in time for the hotel rooms begins at 4pm on July 19. Check out time is no later than 11am on July 24. There will be convention space available to hold luggage if you choose to come early on July 19 or leave late on July 24.

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COMPETITION INFORMATION

COMPETITORS

Each student is to be registered in one of the three levels defined below. The division students will compete in is determined by the math course in which they are enrolled as of May 1, 2020.

THETA level is for associates or members who have completed Geometry and/or Algebra II but have not been enrolled in a higher-level mathematics course.

ALPHA level is for members who have completed math courses above Algebra II but have not been enrolled in Calculus.

MU level is for members who have completed a Calculus course.

COMPETITIONS

A student *may* take a test at a higher level other than the division in which they are registered **ONLY** in the following competitions: Topic Tests, Chalk Talk, Relay, Hustle, and Gemini. However, if you are registered as an alpha, you **MUST** take the alpha individual, alpha ciphering, and alpha school bowl (if you qualify and aren't signed up for Statistics Bowl at registration by your sponsor).

The **OPEN** level topic tests are not limited to students in any particular level. However, students should carefully examine test content descriptions before making their selections.

NOTE: For all of the competitions, the standards for the specific subjects are located at the following link: <http://floridamao.org/Downloadable/TestStandards.pdf>.

Individual Tests: (T, A, M)

Sweepstakes Event

- 30 multiple choice question written test covering all topics applicable to the level
- 60-minute time limit
- No calculators
- Scoring will be 5 points for each correct answer, 1 point for a blank, 0 for an incorrect answer
- Ties will be broken by the sudden winner method. (See glossary.)
- Trophies will be given to places 1-20 for each division.

Topic Tests: (T, A, M)

Sweepstakes Event

- 30 multiple choice question written test.
- Descriptions of topic tests are included in this packet.
- 60-minute time limit, except History of Math - 30-minute time limit.
- No calculators except on Statistics.
- Scoring will be 5 points for each correct answer, 1 point for a blank, and 0 for an incorrect answer.
- Ties will be broken by the sudden winner method.
- Trophies will be given to places 1-15 for each test.
- See list of topic tests on page 6.

Ciphering: (T, A, M)**Sweepstakes Event**

- 10 open response questions administered individually.
- 3-minute time limit per question.
- No calculators
- Scoring - twelve points for a question answered correctly in the 1st minute, eight points in the 2nd minute, and four points for a question answered correctly in the 3rd minute, a sliding scale will be used.
- Trophies will be given to the top 20 in each division.

Gemini: (T, A, M)**Not a Sweepstakes Event**

- 30 multiple choice question written test that 2 people work on together.
- 60-minute time limit.
- Administered to all students not qualifying for school bowl.
- Once all 2 person teams are seated, singletons may work on a first come, first served basis.
- Scoring will be 5 points for each correct answer, 1 point for a blank, 0 for an incorrect answer.
- Ties will be broken by the sudden winner method.
- Only one team per school may win an award in each division.
- Trophies will be given to the top 15 teams in each division.
- No calculators.

School Bowl: (T, A, M)**Sweepstakes Event**

- Top 4 individuals from each school per division as determined by the sum of their individual test score and their ciphering score compete as a team.
- 12 open response questions administered one at a time.
- Time limit - 4 minutes per question with points awarded depending on the minute in which the question is answered correctly.
- 16 points for a question answered correctly in the 1st minute, 12 points in the 2nd minute, 8 points in the 3rd minute, and 4 points in the 4th minute.
- No calculators
- A sliding scale will be used.

Interschool Test**Sweepstakes Event**

- Test will consist of math problems along with trivia, puzzles, and other questions of general knowledge and interest.
- Score will be the number of questions answered correctly.
- No outside material or technology will be permitted.
- Schools will begin with a single student and will be able to “buy in” additional students (or their sponsor) with separate questions that do not count towards the interschool score.
- ONE SPONSOR CAN WORK ON THE TEST WITH THEIR STUDENTS.
- Trophies will be given to the top 10 schools.

Statistics Bowl**Sweepstakes Event**

- Will be held during School Bowl. Students who are NOT on the school bowl teams are eligible to represent their school as a member of the statistics bowl team at the discretion of the sponsor. If a school would like to pre-draft a Statistics team, the list of names and ID #'s need to be turned in AT REGISTRATION, no exceptions. These students would be on Statistics Bowl even if they are one of the top four scorers in Theta, Alpha, or Mu divisions. The now available slot in the division bowl may be filled with a person on the corresponding Individual test who is not already on a team.
- 12 open response questions administered one at a time.
- Time limit - 4 minutes per question with points awarded depending on the minute in which the question is answered correctly.
- 16 points for a question answered correctly in the 1st minute, 12 points in the 2nd minute, 8 points in the 3rd minute and 4 points in the 4th minute.
- Calculators are allowed.
- A sliding scale will be used.
- Small trophies will be given to the 4 individuals on the top 10 teams as determined by bowl score only.

Chalk Talk: (T, A, M)**Sweepstakes Event**

Speeches given by students on the specified topic.

- Each school can have one presenter for each level Theta, Alpha, Mu.
- See judging form included in this packet for more specific information on presentations.
- 12 people from each division will advance to the final round.
- **Theta topic -Math and the Ocean**
- **Alpha topic - Math and Water Parks**
- **Calculus topic - Math and Astronomy**
- Trophies will be given to the top 12 in each division.
- Students will be writing on white boards or flip chart paper.

Poster**Sweepstakes Event**

- See judging sheet in this packet for information.
- Trophies will be given to the top 10 schools.

Hustle**Sweepstakes Event**

- Each school may have ONE Hustle team---which will be comprised of 6 people from your school as follows: (1.) The actual team will consist of 4 students, with no more than 2 students from the same division, (2.) Each school must have a sponsor and an additional sponsor or student that will score for another school.
- There will be 5 rounds of 5 minutes each.
- The team is presented with 125 questions, color-coded by 5 math categories: Geometry, Alg 2, Pre-Calc, Calc and Statistics/Probability. There will be 25 of each color/category, and 25 total submissions will be graded in each round.

Hustle, Continued

- Before the end of each round a 1-minute warning will be given. Teams should have compiled answers for the judges to grade and will submit the paper with the question which includes the answer in the answer blank.
- Correct responses for Round 1 will receive 6 pts, 5 pts for Round 2, 4 pts for Round 3, 3 pts for Round 4 and 2 pts for round 5.
- Awards will be given to the top 10 teams. Individual awards will be given to each of the 4 student members of the team.
- Each student can only do ONE of the following: Hustle or Relay

Relay**Sweepstakes Event**

- The relay team will consist of 3 students - 1 Theta, 1 Alpha, 1 Mu.
- Students will begin seated as Theta, Alpha, Mu.
- After each set of 3 questions, the students will move back one seat.
- Each student will have their own question to work on.
- There will be a single answer sheet on which to write answers only.
- The answer sheet can be passed back or in front during the round
- Students cannot talk to each other.
- If a student wants the answer sheet passed back up to him, the student can snap his fingers or tap the person in front of him on the back.
- There will be 9 rounds and a practice round.
- The time limit for each round will be 6 minutes.
- Answer sheets can be submitted at the end of 2, 4, or 6 minutes. questions the team will receive.
- Each correct answer will be worth 2 points.
- Bonus points will be awarded if all 3 answers are correct - 12 points at the end of minute 2, 8 points at the end of minute 4, 4 points at the end of minute 6.
- Each student can only do ONE of the following: Relay or Hustle

Speed Math (Theta/Alpha/Mu)**Sweepstakes Event**

- This is a 15-minute test with 25 open response problems.
- The content will be specific to each division.
- The answer should be written in the space provided.
- All problems require exact answers.
- Fraction answers may be given as improper fractions, mixed numbers, or exact decimals unless otherwise specified.
- Any units within a given problem and its answer are consistent.
- Where applicable, leave answers in terms of π .
- You will receive 1 point for each correct answer.
- No penalty for wrong answers or empty answer spaces.
- You may write on the test paper.
- No calculators
- Three students from each school can compete in EACH DIVISION. Sponsors can participate in any ONE division they choose.
- Trophies will be given to the top 10 students in each division. The number of awards for sponsors will be based on participation
- Each student can only do ONE of the following: Speed Math or Mental Math

Mental Math (Theta/Alpha/Mu)**Sweepstakes Event**

- This is an 8-minute test with 40 problems.
- ALL PROBLEMS MUST BE SOLVED MENTALLY.
- There is to be NO writing on the test other than the answer.
- Writing other than the answer(s) will result in disqualification of the test taker.
- The answer should be written in the space provided.
- No erasures may be made to an answer once written.
- Use a pen with blue or black ink.
- All problems require exact answers.
- Fraction answers may be given as improper fractions, mixed numbers, or exact decimals unless otherwise specified.
- You will receive 5 points for each correct answer.
- 1 point for each question skipped
- 0 points for each incorrect answer.
- Wait for the signal to begin then you will have 8 minutes of working time.
- A warning will be given at 1 minute and 15 seconds left in the testing time.
- Three students from each school can compete in EACH DIVISION. Sponsors can participate in any division they choose.
- Trophies will be given to the top 10 students in each division. The number of awards for sponsors will be based on participation
- Students can only do ONE of the following: Mental Math or Speed Math

Division Awards

These will be given to the top 10 schools in each division by combining the top 4 individual scores (determined by the sum of their individual test score and their ciphering score) with the bowl score.

Blue Ribbon Award

The Blue Ribbon Award (3 plaques) will be determined by a school's total sweepstakes points divided by the number of participants from that school (minimum of 8 students). Schools who place in the top 15 of Sweepstakes are not eligible.

Sweepstakes

Plaques will be given to the top 15 schools.



Don't forget to bring #2 sharpened pencils.

Sweepstakes Scoring

The overall sweepstakes award is calculated from the scores of all tests and competitions. The sweepstakes score is calculated as follows:

1. A t-score is calculated for each individual competition score.
2. A t-score is calculated using the formula $t = 10z + 50$.

In the above formula, z is the standard score (or z-score) and represents the number of standard deviations above or below the mean a particular score is located. The z-score is equal to $(x - \mu)/\sigma$, where x is the actual team score, μ is the mean score, and σ is the standard deviation of all the team scores. t-scores have a mean of 50. After each t-score is calculated, it is multiplied by a weighing factor so that each competition has a value relative to its importance.

So that sponsors and students can get a better feeling for the relative importance of each competition, the following table gives the weight and an **approximate** percentage for each competition.

Competition	Num	% Each	Total %
Division (indiv, bowl, ciph) *Top 4 students M,A,T	3	14	42
Topic Tests: Top 1 student in each test	30	1.2	36
Interschool	1	3.5	3.5
Hustle	1	3.5	3.5
Relay	1	3.5	3.5
Poster	1	2	2
Chalk Talk: Top student in each division	3	1.5	4.5
Speed/Mental Math	6	0.5	3
Statistics Bowl	1	2	2
Total Weighing Points			100

Topic Tests

Sweepstakes Events

Each student must register for one topic test for each round. Please indicate the number of students taking each test when you register online. Students may take any topic test in their division, a higher division or any that are designated as open.

Round 1	Round 2	Round 3
(T) Geometry	(T) Quadrilaterals	(T) CPAV
(T) Equations/Inequalities	(T) Applications	(T) Conic Sections
	(T) Functions	(T) Logs/Exponents
(A) Trigonometry		
(A) Analytic Geometry	(A) Matrices/Vectors	(A) Applications
(A) Logs and Exponents	(A) Equations/Inequalities	(A) Complex Numbers
		(A) Sequences/Series
(M) Limits and Derivatives	(M) Area and Volume	
(M) Mu Applications	(M) Integration	(M) Comprehensive
(M) Differential Equations	(M) BC Calculus	(M) Sequences/Series
(O) History of Math	(O) Codes and Ciphers	(O) Statistics
(O) Discrete Math	(O) Probability	(O) Number Theory

Descriptions of Various Topic Tests

Analytic Geometry - all analytic topics, including all conics, rotated axes, polar coordinates, parametric equations and vectors

Area/Volume - ALL methods of finding or approximating areas under curves or between curves including polar and ALL methods of finding volumes of solids of rotations as well as volumes of irregular shapes, using cross sections

Discrete Math - logic, set theory, number theory, combinatorics, design theory, graph theory, algorithmics, counting, enumerative combinatorics

Comprehensive- This test is designed for an advanced math student to prove their understanding of all levels of mathematics from Geometry through Calculus.

History of Math- This test has asks questions about the entire history of mathematics. It is a 30-minute test. The following references contain the necessary material for this test:

1. <https://atiekubaidillah.files.wordpress.com/2013/03/a-history-of-mathematics-3rded.pdf>
2. <http://www.maths.sci.ku.ac.th/suchai/02731141/hmath2.pdf>
3. <https://www-history.mcs.st-and.ac.uk/>
4. <https://www.bbc.co.uk/programmes/b00srz5b/episodes/downloads>
5. The Story of Maths Documentary (Episodes 1-4. The first episode is <https://www.youtube.com/watch?v=mJbChZrXDJE>)

GLOSSARY

Calculator use - no calculators on any tests other than Statistics topic test and Statistics Bowl

Disputes - write these when there is a disagreement with a given answer on competition tests or bowl questions. There is a designated time for this after each competition. Disputes will not be considered outside of the designated timeframe.

Division - refers to the three major strands of the competition. The three divisions are THETA, ALPHA, and MU. Division scores are computed by adding the TEAM score with top 4 individual scores as determined by the sum of their individual test score and ciphering score

Interschool test - a test that anyone from a school may work on

Level - is determined by the highest course a student has completed prior to attending the convention. A student may take a test at a higher level but NOT at a lower level on the following competitions for the 2020 convention: topic tests, chalk talk, relay, hustle designated by the hosts. From lowest to highest, the levels are Theta, Alpha, and Mu.

Multiple choice tests - are 60 minutes long, 30 question tests. Multiple choice questions are scored as follows: 5 points for a correct answer, 1 point for no answer, and 0 points for an incorrect answer, with sudden winner tie breakers

Open - open to students from any level

Sliding scale - the first correct answer received will be awarded 16 points regardless of the minute in which the question was answered. Correct answers received in the next minute will receive 12 points, and so on until the four-minute time limit has been reached. For example, if a correct response is received in the third minute then that response and all other correct answers in the third minute will receive 16 points. Correct answers received in the fourth minute will receive 12 points. (See team scoring.)

Sudden winner tie breaker system - tied scores on individual tests and topic tests will be broken by examining the first difference in the tied papers. A right answer will defeat a blank or incorrect answer. A blank answer will defeat an incorrect answer. *For example: Test 1 and test 2 have identical answers for questions 1 through 9 but question 10 on Test 1 is wrong while it is correct on Test 2. Test 2 would win the tie breaker and get the higher place.* If papers are identical, students will be called in for a tie-breaking question unless they are tied with perfect papers. In that case, all competitors will receive 1st place.

Team tie breaker - using sudden winner tie breaker system, compare the final team totals, compare team scores per question by points until there is a discrepancy.

Glossary, Continued

Division tie breaker - using sudden winner tie breaker system, compare the final team totals, compare team scores per question by points until there is a discrepancy, the highest number of points on that question breaks the tie, compare individual scores with the highest scoring team member.

Sweepstakes tie breaker - using sudden winner tie breaker system, compare the highest division scores in the following order: Mu, Alpha, Theta.

Team scoring - 12 one question rounds of four minutes. Correct responses in the first minute receive 16 points, second minute 12 points, third minute 8 points, and fourth minute 4 points. A sliding scale will be used.

TENATIVE SCHEDULE OF EVENTS**Sunday: July 19, 2020**

1:00-5:30pm	Registration
6:00 – 7:30pm	Sponsor meeting/Dinner
6:00 – 7:30pm	Dinner
8:00pm	Opening Ceremonies Announcement of Poster Theme
<i>After opening ceremonies</i>	Trivia Game Sponsor Reception
11:00pm	Curfew: in your assigned room

Monday: July 20, 2020

6:30 – 8:00am	Breakfast
7:00 - 7:30am	New Sponsor Breakfast
8:30 – 10:00am	Topic Test Round 1 – Bring ticket/ ID (T) Geometry, Eq & Ineq (A) Trig, Analytic, Logs (M) Apps, Limits, Diff Eq's (O) Discrete Math
8:30-9:05am	(O) History of Math
<i>20 min. after test</i>	<i>Dispute Center Open for Round 1</i>
10:30 – noon	Individual Tests. Bring ID. No tickets necessary
<i>20 min. after test</i>	Dispute Center Open for Individual
Noon – 1:30 pm	Lunch & Delegates' Lunch
1:30 – 5:30 pm	Chalk Talk Round 1 Work on the Poster
3 – 7pm	Governors' Meeting & Kalin Award Interviews
6:00 – 7:30pm	Dinner
8:00 – 10:00pm	Hustle – 4 students, 1 grader, 1 asst.
8:00 – 10:00pm	Relay – One Theta, Alpha, Mu
11:00pm	Curfew: in your assigned room

Tuesday: July 21, 2020

6:30 – 8:00am	Breakfast
7:00- 7:30am	New Sponsor Breakfast (mixer with experienced sponsors)
8am	Pick up verifications for Topic Test Round 1, Individual test, Relays, Hustle; due by 2:00pm Chalk Talk Finalists posted
8:00 – 9:30am	Topic Test Round 2 – Bring ticket /ID (T) Functions, Apps, Quads (A) Matrices/Vectors, Eq/Ineq (M) Integration, Area/Volume, BC Calc (O) Probability, Codes and Ciphers
20 min. after test	Dispute Center Open for Round 2
8:30 – 9:30am	Sponsors' Meeting
10-11am	Speaker Session 1
11:15 – 12:15pm	Speaker Session 2
12:15- 1:45pm	Lunch
2:00pm	Turn in verification for Round 1, Individual, Relays, Hustle Pick up verification for Round 2- due by 5:00pm
2:00 – 2:20pm	Speed Math – 3 students max per division, sponsors take one test
2:30 – 2:45pm	Mental Math – 3 students max per division, sponsors take one test
3:30 – 5pm	Ciphering
5:00pm	<i>Turn in verification for Round 2</i>
5:30 – 8:30pm	Chalk Talk Finals: Mu— Meeting Room Alpha—Meeting Room Theta—Meeting Room All finalists report to ____ at 5:15 to be sequestered.
6 – 7:30pm	Dinner
8pm	Pick up verification for Ciphering – due by 8am Wednesday
8:45 – 9:45pm	Interschool
10-11pm	Awards Topic Test Round 1, Hustle, Relays
11:15pm	Curfew: in your assigned room

Wednesday: July 22, 2020

6:00 - 7:30 am	Breakfast
8am	Turn in verification for Ciphering
7:45 -9:00am	Topic Test Round 3 – Bring ticket & ID. (T) CPAV, Conics, Logs/ (A) Apps, Complex, Sequences/Series (M) Comprehensive, Sequences/Series/ (O) Statistics, Number Theory
20 min. after test	Dispute Center Open for Round 3
9:45am	Board buses for Myrtle Waves (opens at 10am)
10:45am	Board buses for Dave & Busters (opens at 11am)
6 – 7:30pm	Dinner
7:15 – 7:30pm	Sponsors’ Meeting (Airline departures)
8:00pm	Awards Topic Test Round 2, Mental/Speed Math
8:00pm	Bowl teams posted
10:00 – 11:00pm	College Mixer
11:00pm	Curfew: in your assigned room

Thursday: July 23, 2020

6:30 – 8:00am	Breakfast – Bring your ticket
7:30 – 8:00am	Poster Due
8:00 – 9:30am	School Bowl Gemini (for all non-team members)
20 min. after test	Dispute Center Open for Bowl/Gemini
8:30am	Poster Judging
10:00 – 11am	Convention Committee Meeting
11:00 – 5:00pm	Posters on display (Collect posters by 5 pm)
Noon	Pick up verifications for Round 3, Gemini and School Bowl due by 2:00
11:30am -1:00pm	Lunch & Delegates' Lunch
2:00pm	Turn in verifications for Round 3, Gemini/Bowl @ Registration Desk
5:00 – 6:30pm	Dinner
7:30pm	Final Awards (dressy attire) National Office Awards, Topic Test Round 3, Poster, Interschool, Gemini, Individual Awards, Ciphering, Division Awards, Sweepstakes
11:00pm	Curfew: in your assigned room

Friday: July 24, 2020

6:30 – 11:00am	Checkout: SEE YOU IN DC!
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Chalk Talk Topics and Guidelines/Judging Sheet

NAME _____

SCHOOL _____

I. Topics for each division are:

Theta topic – Math and the Ocean

Alpha topic – Math and Water Parks

Mu topic – Math and Astronomy

II. Students will be given 7 minutes of uninterrupted time for their presentation on the topic above. Warnings will be given when one minute remains and when 15 seconds remain. Presentations will be cut off at the 7-minute mark. Students may only bring one 3” by 5” index card into the presentation room to use during the presentation. All writing materials will be provided. Only observers from the presenter’s school may observe the preliminary round, unless the presenter’s sponsor is present and the presenter and the sponsor give permission otherwise. No one is allowed to enter the room after the speaker begins their talk.

III. Chalk Talk presentations will be judged on the following scale shown below.

Two judges will be assigned each presentation in the preliminary round, for a total of 100 points.

Three judges will be assigned each presentation in the final round, for a total of 150 points.

IV. In the preliminary round, students may observe a chalk talk presentation ONLY of another student from the same school. The Chalk Talk Finals are open to all convention participants.

V. Each school may enter one person per division, and they must register on the Competition Sign-Up form.

VI. Mu Chalk Talks must have elements of Calculus. Alpha Chalk talks must have elements of Pre-Calculus, which could include Trigonometry and introductory limits. Theta Chalk talks must have elements of Algebra/Geometry.

Chalk Talk Judges Sheet

Content

Knowledge of subject	1	2	3	4	5
Accuracy of math used	1	2	3	4	5
Appropriateness of math used	1	2	3	4	5
Originality	1	2	3	4	5
Relevance of facts to topic	1	2	3	4	5

Presentation

Clear articulation	1	2	3	4	5
Addressed to audience	1	2	3	4	5
Use of white board or flip chart	1	2	3	4	5
Wow Factor!!	1	2	3	4	5
Use of time	1	2	3	4	5

Judge’s comments: (on side and back of the paper)

Total: _____

Poster Competition Information

- Chapters attending the annual Convention may create a poster on the theme announced at the Convention.
- All students may work as a team during this event.
- Only one poster is permitted per school.
- The poster board will be supplied by the Convention host.
- Materials used for the poster are to be supplied by each school. Nothing can be attached to the poster by using tape, glue, etc. Suggested materials are colored pencils, crayons, markers, pencil, etc.
- No glitter of any kind is to be used, including using glitter pens/paints.
- Names of schools are to be written on the back, not the front.
- A panel of judges will consist of seven sponsors/chaperones. The high and low score will be thrown out. The sum of the remaining five judges will be the school's total. The decision of the judges is final.
- **A replica of the judge's scoring sheet is shown below.**
- Trophies will be awarded to the top 10 places.
- Ties will be broken based on total scores in WOW factor, Math Related and Originality, respectively.
- Chapters submitting posters for judging shall, at the same time, waive their rights to the Mu Alpha Theta National Office for use of images of their posters in publicizing Mu Alpha Theta in print or electronic forms. The National Office reserves the right to retain any of the posters submitted for up to one month following the annual meeting for making such images. All posters retained will be returned to their sponsoring chapter within one month following the close of the Convention.

Poster Competition Judging Sheet

Poster Number _____

Judge's # _____

Note to judges: Please write in point values for all subcategories on the left. Total these and write subtotals for each category on the right.

I. Content (30 points, maximum)

_____ **Total points**

_____A. Originality (10 points)

_____B. Theme Related (10 points)

_____C. Math Related (10 points)

II. Artistic Quality (30 points, maximum)

_____ **Total points**

_____A. Lettering/Artwork (10 points)

_____B. Color Coordination/Design (10 points)

_____D. Style/Layout (10 points)

III. Overall Effect (15 points, maximum)

_____ **Total points**

_____ A. Neatness (5 points)

_____ B. Eye Catching Design (5 points)

_____ C. WOW Factor (5 points)

Deductions:

Use of unauthorized materials or attachments: -10 points

School name, logo, initials or any other identifying elements on front: -10 points

_____ **Total Points (75 maximum)**

FINAL REGISTRATION FORM

School Name _____ Chapter ID _____
 School Address _____
 City _____ State _____ Zip code _____
 Main Contact _____ Summer Email* _____
 Cell Phone #* _____

*Important updates and information will be emailed and texted after school is out.

Total Number of Students: _____ x \$600
 Total Number of Sponsors who do NOT need a single room: _____ x \$600
 Total Number of Sponsors who need a single room*: _____ x \$1,000
 Subtotal:

--

Names of Participants whose registration the National Office pays
(subtract \$600 for each person from your "Subtotal"):

Reason National Office pays:

Total Due by May 15, 2020:	
---------------------------------------	--

Make check payable to:
 Mu Alpha Theta Educational Foundation
 Memo Line: 2020 Myrtle Beach Convention
 (credit card payments incur a 3% processing fee)
Postmark Deadline: May 15, 2020

Mail to:
 Mu Alpha Theta
 c/o University of Oklahoma
 3200 Marshall Ave, Suite 190
 Norman, OK 73019

*Names of Sponsors who need a single room: _____

This form must be postmarked by May 15 to: Mu Alpha Theta, c/o University of Oklahoma, 3200 Marshall Ave, Suite 190, Norman, OK 73019

Participant Waiver and Release

I _____ (printed name of participant) desire to attend the MAΘ National Convention hosted by Mu Alpha Theta (the “Organization”) and engage in activities related to being a participant in such Convention (the “Activities”). I understand that as a participant and not an employee of Mu Alpha Theta and that I will receive no compensation or remuneration for my services and will not be eligible for any employee benefits.

In exchange for being allowed to participate in the Activities and for other good and valuable consideration, the receipt and sufficiency of which I acknowledge, I hereby freely, voluntarily, and without duress execute this Release and agree to the following terms:

1. **Assumption of Risk.** I am aware and understand that the Activities may be inherently dangerous and may expose me to a variety of foreseen and unforeseen hazards and risks. I acknowledge that I am voluntarily participating in the Activities and have considered those risks. I hereby expressly and specifically assume such risks, including any and all risk of injury, harm, or loss that I may incur as a result of my participation in the Activities.

2. **Medical Treatment.** I hereby give consent and authority to the Organization to obtain medical treatment on my behalf if I am injured or require medical attention during my participation in the Activities pursuant to the Medical Release Form submitted by me. I understand and agree that I am solely responsible for all costs related to such medical treatment, medical transportation, and/or evacuation. I hereby release, forever discharge, and hold harmless the Organization from any claim whatsoever in connection with such treatment or other medical services.

3. **Release and Waiver.** I hereby fully and forever release and discharge the Organization, its directors, convention committee members, employees, agents, volunteers, and other representatives, directors, employees, agents, volunteers, and other representatives (the “Released Parties”), from, and expressly waive, any and all liability, claims, and demands of whatever kind or nature, either in law or in equity that may arise from my participation in the Activities, including, but not limited to, claims for personal injury, death, loss of personal property, or any other loss or damage, expense, or cost, including meals, ground, or air travel which may have been incurred by me or by my guardian. I covenant not to make or bring any such claim or demand against the Released Parties, and fully and forever release and discharge the Released Parties from liability under such claims or demands.

I UNDERSTAND THAT THIS RELEASE DISCHARGES THE ORGANIZATION FROM ANY LIABILITY OR CLAIM THAT I MAY HAVE AGAINST THE ORGANIZATION WITH RESPECT TO ANY BODILY INJURY, PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE, OR PROPERTY LOSS THAT MAY RESULT FROM THE ACTIVITIES, WHETHER CAUSED BY THE NEGLIGENCE OF THE ORGANIZATION OR OTHERWISE.

4. **Indemnification.** I hereby agree to indemnify, defend, and hold harmless the Released Parties from any and all liability, losses, damages, judgments, or expenses, including attorneys’ fees, that it may incur or sustain as a result of my negligence, recklessness, or willful misconduct in connection with my participation in the Activities, arising out of any third-party claim.

5. **Insurance.** I understand that the Organization does not assume any responsibility for or obligation to provide financial assistance or other assistance, including but not limited to medical, health, or disability insurance of any nature in the event of my injury, illness, or death, or damage to or loss of my property. I also understand that the Organization does not provide workers’ compensation insurance for volunteers or participants. I expressly waive any claim for compensation or liability on the part of the Organization in the event of any injury or medical expense.

6. **Photographic Release.** I understand and agree that during the Activities, I may be photographed and/or videotaped by the Organization for internal and/or promotional use. I hereby grant and convey to the Organization all right, title, and interest, including but not limited to, any royalties, proceeds, or other benefits, in any and all such photographs or recordings, and consent to the Organization’s use of my name, image, likeness, and voice in perpetuity, in any medium or format, for any publicity without further compensation or permission.

7. Miscellaneous. I hereby agree that this Release represents the full understanding between the Organization and me and supersedes all other prior agreements, understandings, representations, and warranties, both written and oral, between us, with respect to the subject matter hereof. If any term or provision of this Release shall be held to be invalid by any court of competent jurisdiction, that term or provision shall be deemed modified so as to be valid and enforceable to the full extent permitted. The invalidity of any such term or provision shall not otherwise affect the validity or enforceability of the remaining terms and provisions. This Release is binding on and inures to the benefit of the Organization and me and our respective heirs, executors, administrators, legal representatives, successors, and permitted assigns. Section headings are for convenience of reference only and shall not define, modify, expand, or limit any of the terms of this Release.

8. Governing Law. All matters arising out of or relating to this Release shall be governed by and construed in accordance with the internal laws of the State of Oklahoma without giving effect to any choice or conflict of law provision or rule (whether of the State of Oklahoma or any other jurisdiction). Any claim or cause of action arising under this Agreement may be brought only in the federal and state courts located in Oklahoma and I hereby consent to the exclusive jurisdiction of such courts.

BY SIGNING BELOW, I ACKNOWLEDGE THAT I HAVE READ AND UNDERSTOOD ALL OF THE TERMS OF THIS RELEASE AND THAT I AM VOLUNTARILY GIVING UP SUBSTANTIAL LEGAL RIGHTS, INCLUDING THE RIGHT TO SUE THE ORGANIZATION.

Participant Signature

Date

Participant Printed Name

Participant Age (if under 22)

If under 18 years old, Parent or Guardian must also sign

Parent/Guardian Signature

Date

Parent/Guardian Printed Name

Student's printed name

School

Student Participation Policies

STUDENTS CANNOT ATTEND THE NATIONAL CONVENTION WITHOUT THIS FORM ON FILE.

Rules of Conduct

- Participant agrees to conduct himself/herself in a manner appropriate for a member of an honor society.
- Participant agrees to join all scheduled activities, to keep his/her sponsor informed of whereabouts before leaving the group/housing during unscheduled times, and when permission is given to leave the group, to travel in groups of two or more.
- Participant agrees not to visit the rooms of the opposite sex. No visits are allowed after curfew.
- Participant agrees not to bring with him/her or to acquire during the trip, drugs of any kind including alcohol or smoking materials.
- Participant agrees to permit the sponsor to keep any prescription medicines during the trip.
- In matters of dress and deportment, participant agrees to follow the suggestions of the convention host, Governing Council, and school sponsor.
- Participant agrees to adhere to curfew as determined by the convention host and to permit occasional room and baggage checks during the trip.
- Participants agrees that failure to follow any of these rules may result in confinement to housing assignment and/or in the return home of the participant (on the first available flight) at participant's own expense, or, if a minor, at the expense of the parent or legal guardian of participant, and without benefit of any refund.

Participant's signature

Date

Parent/Guardian's signature

Date

Sponsor's signature

Date

Transfer of Sponsorship

Complete ONLY if you are attending the convention with a school that is not your "home" school. Every student that competes or attends a MA θ -sanctioned event must have a school sponsor with them at that event. The "home" school named below is transferring sponsorship responsibilities for the Mu Alpha Theta National Convention to the receiving sponsor identified below. The receiving sponsor assumes responsibility for the "home" school student for the entire convention. This is not a transfer of liability.

Name of "Home" School _____

Sponsor's Name _____

Sponsor's Signature _____ Principal's Signature _____

Name of Receiving School _____ Chapter ID _____

Sponsor's Name _____

Sponsor's Signature _____ Principal's Signature _____

This form must be postmarked by May 15 to: Mu Alpha Theta, c/o University of Oklahoma, 3200 Marshall Ave, Suite 190, Norman, OK 73019

YOU CANNOT ATTEND THE NATIONAL CONVENTION WITHOUT THIS SIGNED FORM ON FILE.

Medical Release Form
(This form MUST be notarized)

(If under 18:) I, _____, as legal guardian of _____, Participant

(If over 18:) I, _____, Participant

authorize representatives from my school, officers of Mu Alpha Theta, and members of the convention staff, to initiate such first aid and other medical treatment (including hospitalization) as deemed necessary to protect the health and safety of participant while in attendance at and traveling to/from the convention. I understand that such treatment may include obtaining the services of health care providers. I acknowledge all financial responsibility.

Insurance Company _____ Policy # _____

Subscriber Name: _____

Check here if participant does not have medical insurance:

Signature (legal guardian's signature if participant is under 18): _____

Emergency Contact 1: _____ Phone Number: (_____) _____ Relationship _____

Emergency Contact 2: _____ Phone Number: (_____) _____ Relationship _____

STATE OF _____ COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 20____, by

_____ (name of person acknowledging).

Printed Name of Notary

(NOTARY SEAL)

Signature of Notary Public

Personally Known _____ OR Produced Identification _____

Type of Identification Produced _____

****INCLUDE A COPY OF BOTH SIDES OF YOUR INSURANCE CARD(S).****

ALL PRESCRIPTION MEDICATIONS (with the exception of items such as inhalers) must be left in the possession of the sponsor or an adult. Please indicate the name of the prescription medication and the dosage. Also include other medical conditions, including allergies, the convention staff and sponsors should be aware of: _____

This form must be postmarked by May 15 to: Mu Alpha Theta, c/o University of Oklahoma, 3200 Marshall Ave, Suite 190, Norman, OK 73019