

# Mu Alpha Theta National Convention 2014

## DoubleTree Hotel at the Entrance to Universal Studios Orlando, FL July 20-25

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The 44<sup>th</sup> annual Mu Alpha Theta National Convention will be hosted by:

Rob Snow, Deerfield Beach HS  
Lisa Herron, Cypress Bay HS

[robsnow23@yahoo.com](mailto:robsnow23@yahoo.com)  
[lisaherron1968@gmail.com](mailto:lisaherron1968@gmail.com)

Test Coordinator: Brandi Hillard, Vero Beach HS [brandi1028@yahoo.com](mailto:brandi1028@yahoo.com)

Please see [http://www.mualphatheta.org/National\\_Convention/Description2014.aspx](http://www.mualphatheta.org/National_Convention/Description2014.aspx) for updates or changes.

### Competitors

All competitors must be 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, Scrapbook, Interschool Contest, and State Bowl. 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 15, 2014.

### Registration Fees

The early bird fee is **\$550** per participant, pre-registered by April 1 with a \$50 non-refundable deposit. The remaining **\$500** must be postmarked no later than May 15. After April 1, the registration fee will be **\$590** for all attendees who were not pre-registered. The full payment must be postmarked no later than May 15. The registration fee includes convention activities, t-shirt, and most meals (see schedule). Single rooms for sponsors are available at an additional cost of **\$350**.



### REGISTRATION DUE DATES

<b>Early Bird Registration</b>	postmark date: April 1, 2014
<b>Final Registration</b>	postmark date: May 15, 2014
<b>Medical Forms</b>	postmark date: May 31, 2014
<b>Student Participation Forms</b>	postmark date: May 31, 2014
<b>Travel Information</b>	Final online date: June 1, 2014
<b>All Participant Information</b>	Final online date: June 1, 2014

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## Registration

There are 3 components for registering all participants for the convention.

1. Fill out the **pre-registration form**, paying \$50 per participant. Schools not paying in full on the pre-registration form will need to send final payment with the registration form.
2. All participant information must be **input online** at [www.mualphatheta.org](http://www.mualphatheta.org). This site will be available beginning **February 1, 2014**. 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.
3. **Medical forms/Participation forms** must be completed for each competitor and sponsor and mailed to:  
Rob Snow  
1317 SE First Avenue  
Deerfield Beach, FL 33441  
Forms must be notarized and a copy of the medical/health card must be attached. Sponsors may want to keep a copy of these forms to carry while traveling.

## Accommodations

All accommodations for students will be 4 to a room. **Additional nights will be available three nights before and after the convention at \$129/room per night plus taxes and fees.** Sponsors will need to call the DoubleTree and make reservations for additional nights. Sponsors preferring a single room will have an additional fee of \$350. **Parents or others not attending as chaperones need to book reservations by emailing their needs to the National Office, [matheta@ou.edu](mailto:matheta@ou.edu).** They should not try to book rooms in our block through the hotel.

The address of the hotel is: DoubleTree Hotel at the Entrance to Universal Studios, 5780 Major Boulevard, Orlando, FL 32819.

## Parking

Parking is available at the hotel for \$7 for cars per day and \$15 for buses per day.

## Transportation

Shuttle buses, provided by the convention, will run from the airport to the hotel on Sunday July 20 (10 am - 4 pm) and to the airport from the hotel on Friday July 25 until noon. If possible, the convention will transport participants as early as 4 am on Friday for early flights. Sponsors should email Kay Weiss if they need a box-breakfast before 6 am on Friday. 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.



## Excursions

Orlando is a very popular tourist destination. The hotel is directly across the street from **Universal Orlando** (walking distance), where Universal Studios and Islands of Adventure theme parks are located. Sea World and the four Disney theme parks (Magic Kingdom, Epcot Center, Hollywood Studios and Animal Kingdom) are nearby (driving distance). **Theme park tickets are NOT included in the Registration Fee!**

On Wednesday, July 23, schools will have the opportunity to attend one of these theme parks. If a school wants to break up and go to multiple parks, they can, but they must have a chaperone with each group of students. The convention will provide charter bus transportation to and from the parks from the hotel.



The current 2014 price list is attached as a separate file. If the 2014 prices increase, the list will be posted to [www.mualphatheta.org](http://www.mualphatheta.org) >National Convention



If any school would like to purchase tickets for use before or after the convention, or if you have less than 10 people attending, please email Rob Snow for more information so that we can get you the best possible prices.

### Sponsor Duties

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

### Rooming Assignments (to be done online)

All students will be assigned 3 or 4 to a room and sponsors will be assigned 2 to a room (unless you pay for a single). 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 that 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 will be an **additional \$350**.

### Registration/Check Out Time

Registration will start at 1 pm on July 20 and check out time is no later than 11 am on July 25. There will be convention space available to hold luggage if you choose to come early on July 20 or leave late on July 25.

### 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 15, 2014.

**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.

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## **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).

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.

### **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 2<sup>nd</sup> minute, and four points for a question answered correctly in the 3<sup>rd</sup> 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 1<sup>st</sup> minute, 12 points in the 2<sup>nd</sup> minute, 8 points in the 3<sup>rd</sup> minute, and 4 points in the 4<sup>th</sup> minute.
- No calculators
- 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.

**Interschool Test**

**Sweepstakes Event**

- Test will consist of math problems along with data found at the convention site.
- **10% of the Interschool score will be for a video submitted to the Mathematical Minutes Video Contest** held during the school year. Schools submitting a video will be given additional points towards their score.
- Score will be the number of questions answered correctly.
- Books will not be necessary.
- ONE SPONSOR CAN WORK ON THE TEST WITH THEIR STUDENTS.
- Trophies will be given to the top 10 schools.

**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.
- 10 people from each division will advance to the final round.
- **Theta topic –Math in the Movies**
- **Alpha topic – Math in Rides and Rollercoasters**
- **Calculus topic – Math in Walt Disney World**
- Trophies will be given to the top 10 in each division.
- Students will be writing on white boards or flip chart paper.
- **ANY STUDENT PARTICIPATING IN CHALK TALK CAN'T PARTICIPATE IN HUSTLE OR RELAY.**

**Trivia: (All Students – No Sponsors – Opening Night)**

**Sweepstakes Event**

- 60 Questions on the following topics: Movies, TV, Sports, General Academic Knowledge, and Music.
- Two minutes will be given for each question.
- There will be questions worth 1, 2, or 3 points depending on difficulty. Points are given for correct answers no matter how quickly turned in.

**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. If you do not have a sponsor or an additional person, then drag someone from another school to help. Extras MAY be provided.
- 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.



- 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.
- ***ANY STUDENT COMPETING IN HUSTLE CAN'T COMPETE IN CHALK TALK OR RELAY.***

**Relay**

- 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.
- ANY STUDENT COMPETING IN RELAY CAN'T COMPETE IN CHALK TALK OR HUSTLE.

**Sweepstakes Event**

**Scrapbook**

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

**Sweepstakes Event**

**Poster**

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

**Sweepstakes Event**

**Speed Math**

- This is a 15 minute test with 25 open response problems.
- There is NO **calculus** or **trig** on this contest.
- 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  $\pi$ .
- 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
- any sponsor may participate
- Students can take EITHER Mental Math or Speed Math, but not both.
- Each school can have a MAXIMUM of 3 students.

**Non-Sweepstakes Event**

**Mental Math**

- 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.
- Any sponsor may participate.
- Students can take EITHER Mental Math or Speed Math, but not both.
- Each school can have a MAXIMUM of 3 students.

**Non-Sweepstakes Event**

**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.

**Sweepstakes**

- Trophies will be given to the top 15 schools.

**Sweepstakes Scoring**

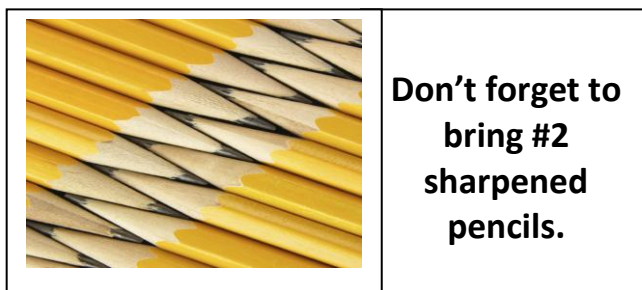
The overall sweepstakes award is calculated from the scores of all tests and competitions. The sweepstakes score is calculated as follows.

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, mu is the mean score, and sigma 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.



	Num	Weight Each	% Each	Total Weight	Total %
<b>Competition</b>					
Division (indiv, bowl, ciph) *Top 4 students M,A,T	3	9	13	27	39
Topic Tests: Top 1 student in each test	30	1	1.5	30	45
Interschool	1	2	2.4	2	2.4
Scrapbook	1	2	2.4	2	2.4
Relay	1	2	2.4	2	2.4
Hustle	1	2	2.4	2	2.4
Poster	1	1	1.2	1	1.2
Trivia (Opening Night)	1	1	0.7	1	0.7
Chalk Talk: Top student in each division	3	1	1.5	3	4.5
<b>Total Weighing Points</b>				70	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) Functions	(T) Quadrilaterals
(T) Equations/Inequalities	(T) Triangles	(T) Logs/Exponents
(T) Theta Applications	(T) Conic Sections	(T) Math in the Movies
(A) Alpha Applications	(A) Matrices	(A) Trigonometry
(A) Complex Numbers	(A) Equations/Inequalities	(A) Logs/Exponents
	(A) Analytic Geometry	(A) Math in Rides
(M) Mu Applications	(M) Integration	(M) Limits/Derivatives
(M) Sequences/Series	(M) BC Calculus	(M) Differential Eqs
(M) Math in Walt Disney World		(M) Area and Volume
(O) Unit Circle	(O) Probability	(O) Math is Universal
(O) Statistics	(O) Discrete Math	

**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

The Chalk Talk Topic tests (*Math in the Movies*, *Math in Rides and Rollercoasters*, and *Math in Walt Disney World*) are designed with Chalk Talk presenters in mind. Now that you have done the research for your presentation, let's use that knowledge of trivia, mathematical applications, history, and some mathematics on a test! These tests are not exclusively for Chalk Talk participants.

*Math Is Universal* – This test is designed for an advanced math student to prove their understanding of all levels of mathematics from Geometry through Calculus. In addition to mathematics, an understanding of Universal Studios history and trivia will be tested.

*Unit Circle* – 50 questions in 25 minutes. Match values from the unit circle for various trigonometric ratios. The test will be done MENTALLY. All work must be done in your head and nothing written on the paper except the answers. An example of the test is at the end of this information.

## **Glossary of terms**

***Alpha*** – for full members who have completed math courses above Algebra II/Geometry but have not been enrolled in Calculus

***Calculator use*** – no calculators on any tests other than Statistics topic test

***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.

***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 is allowed to take a test at a higher level but NOT at a lower level on the following competitions for the 2010 convention: topic tests, chalk talk, relay, hustle designated by the hosts. From lowest to highest, the levels are Theta, Alpha, and Mu.

***Mu*** – for full members who have completed a calculus course

***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 1<sup>st</sup> 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.

**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.

**Theta** – for associate or full members who have completed Geometry and/or Algebra II but have not been enrolled in a higher level mathematics course

**UNIT CIRCLE TEST SAMPLE:**

For each of the following trigonometric ratios from the unit circle, write in CAPITAL LETTERS the corresponding matching values. If the value is POSITIVE, make a line through the negative sign to make it positive. If it is negative, you may leave the negative sign. Any mark over the negative sign will be determined to be a positive. If the answer is E, I, or J, a positive or negative sign is not required. The test will be done MENTALLY. All work must be done in your head and nothing written on the paper except the answers.

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	1	0	$\frac{\sqrt{3}}{3}$	$\sqrt{3}$	$\sqrt{2}$	None of the Above	$\infty$ (undefined)

- \_\_\_\_\_  $\sin(60^\circ)$
- \_\_\_\_\_  $\sqrt{\cos(0^\circ)}$
- \_\_\_\_\_  $\sin(-\frac{\pi}{4})$
- \_\_\_\_\_  $-\cot(\frac{\pi}{3})$
- \_\_\_\_\_  $\sin(2400^\circ)$
- \_\_\_\_\_  $-\tan(-\frac{\pi}{4})$
- \_\_\_\_\_  $-\csc(\frac{7\pi}{3})$
- \_\_\_\_\_  $\sec(1800^\circ)$
- \_\_\_\_\_  $-\sin(330^\circ)$

**TENATIVE SCHEDULE OF EVENTS**

<b>Sunday July 20, 2014</b>		
1:00-5:30 pm	Registration Scrapbooks due	Convention Registration Desk
6:00 – 7:30 pm	<i>Buffet Dinner</i>	Citrus Ballroom
8:00 pm	Opening Ceremonies <i>Announcement of Poster Theme</i>	Universal Center
<i>After opening ceremonies</i>	<b>Trivia Game</b>  Sponsor Meeting	Universal Center  O/O/L
11:30pm	Curfew	in your assigned room
<b>Monday July 21, 2014</b>		
6:30 – 8:00 am 7:00 - 7:30 am	<i>Breakfast – Bring your ticket</i> <i>New Sponsor Breakfast</i>	Pompano’s Meeting Room
8:30 – 10:00 am	<b>Topic Test Round 1 – Bring ticket/ ID.</b> (T) Geometry, Eq & Ineq, Apps (A) Complex Numbers, Apps (M) Apps, Seq & Series, Math WDW (O) Statistics	Universal Center
8:30 – 9:05am	<b>(O) Unit Circle (25 minutes)</b>	
<i>½ hr after test</i>	<b><i>Resolution Center Open for Round 1</i></b>	<i>Registration Desk</i>
8:30 am	Governor’s Board Meeting	Meeting Room
9:00 am	Scrapbook Judging	Meeting Room
10:30 – noon	<b>Individual Tests. Bring ID.</b> <i>No tickets necessary</i>	Universal Center
<i>½ hr after test</i>	<b><i>Resolution Center Open for Individual</i></b>	<i>Registration Desk</i>
Noon – 1:30 pm Noon – 1:30 pm	<i>Lunch</i> <i>Delegate’s Lunch</i>	Osceola/Lake Meeting Room
2:30 – 3:30 pm	<b>Speaker Sessions</b> (see program page 14 and 15)	Meeting Rooms
3:45 – 4:45 pm	<b>Speaker Sessions</b>	Meeting Rooms

5:30 – 10:00 pm	Scrapbooks on display	Meeting Room
5:15 – 6:45 pm	<i>Dinner</i>	Osceola/Lake
6:00– 10:00 pm	<i>Chalk Talk Round 1</i> <i>Mu— Meeting Rooms</i> <i>Alpha—Meeting Rooms</i> <i>Theta—Meeting Rooms</i>  <i>Kalin Interviews</i>	2 rooms each
7:30 – 8:45 pm	<i>Hustle</i>  <i>Relays</i>	Orange  <i>Universal</i>
10:00 – 11 pm	Sponsor’s Reception	Osceola/Lake
11:30pm	Curfew	in your assigned room
<b>Tuesday July 22, 2014</b>		
7:00 – 8:00 am	<i>Breakfast – Bring your ticket</i> <i>New Sponsor Breakfast</i> <b>Pick up verifications for Topic Test Round 1, Individual test, Relays, Hustle; due by 2:00 pm</b> <i>Chalk Talk Finalists posted</i>	Pompano’s Meeting Room Registration Desk  Registration Desk
8:30 – 10:00 am	<b>Topic Test Round 2 – Bring ticket /ID</b> (T) Functions, Triangles, Conics (A) Matrices, Eq/Ineq, Analytic Geo (M) Integration, BC Calc (O) Probability, Discrete Math	Universal Center
<i>½ hr after test</i>	<b><i>Resolution Center Open for Round 2</i></b>	<i>Registration Desk</i>
9:00 – 9:30 am	Sponsor’s Meeting	Orange
10 -11 am	Governor’s Board Meeting	Meeting Room
10:30 –noon <i>½ hr after test</i>	<b>Ciphering</b> <b><i>Resolution Center Open for Ciphering</i></b>	Universal Center Registration Desk
12:00 – 1:30 pm	<i>Lunch</i> <i>Delegate Lunch</i>	Osceola/Lake  <i>Meeting Room</i>
2:00 pm	<b><i>Turn in verification for Round 1, Individual, Relays</i></b> <b>Pick up verification for Round 2- due by 5:00 pm</b>	Registration Desk
1:30-2:45	Interschool Test (1 sponsor, all students)	Universal Center

3:00-3:25pm	Speed Math (3 students max, all teachers)	Osceola/Lake
3:30-3:45pm	Mental Math (3 students max, all teachers)	Osceola/Lake
4:00 – 6:00 pm	<b>Chalk Talk Finals</b> Mu— Meeting Room Alpha—Meeting Room Theta—Meeting Room	<b>All finalists report to _____ at 3:45 pm to be sequestered.</b>
5:00 pm	<b>Turn in verification for Round 2</b> <b>Pick up verifications for ciphering;</b> <b>due Tues by 9 pm</b>	Registration Desk
5:45 – 7:15 pm	<i>Dinner</i>	O/O/L
7:30pm	<i>Awards</i> <i>Topic Test Round 1, Scrapbook, Hustle,</i> <i>Relays</i> <i>Chalk Talk</i>	Universal Center
After Awards	bCollege Mixer	
9:00 pm	<b>Turn in verifications for ciphering</b>	Registration Desk
11:30 pm	Curfew	In your assigned room
<b>Wednesday July 23, 2014</b>		
7:00 – 8:00 am	<i>Breakfast – Bring your ticket</i>	Pompano's  Registration Desk
8:00 am	<b>Theme Park Day</b> <i>Lunch and Dinner on your own</i>	<b>Meet in Universal Center with your ENTIRE group</b>
9:30 pm	<i>Awards</i> <i>Topic Test Round 2, Mental /Speed Math</i>	Universal Center
9:30 pm	<b>Bowl teams posted</b>	Registration Desk
11:30 pm	Curfew	In your assigned room
<b>Thursday July 24, 2014</b>		
6:30 – 8:00 am	<i>Breakfast – Bring your ticket</i> <b>Poster Due</b>	<i>Pompano's</i> <b>Registration Desk</b>
8:00 -9:30am	<b>Topic Test Round 3 – Bring ticket &amp; ID.</b> (T) Quadrilaterals, Logs, Movies (A) Trig, Logs, Rides & Rollercoasters (M) Limits, Dif Eq, Area and Volume (O) Math Is Universal	Universal Center
½ hr after test	<b>Resolution Center Open for Round 3</b>	<i>Registration Desk</i>
10:15-Noon	<b>School Bowl</b>	Universal Center



10:15-Noon ½ hr after test	<b>Gemini</b> (for all non-team members) <b>Resolution Center Open for Bowl/Gemini</b>	O/O/L Registration Desk
9:00 am	<b>Poster Judging</b>	Meeting Room
10:00 – 11 am	<b>Convention Committee Meeting</b>	Meeting Room
10:45 – 5:00 pm	Posters on display (Collect posters by 5 pm)	Meeting Room
Noon  11:30 am -1:00pm	<b>Pick up verifications for Round 3, Gemini and School Bowl due by 2:00 pm</b> <i>Lunch</i> Delegate's Lunch	<b>Registration Desk</b>  <i>Osceola/Lake</i> Meeting Room
2:00 pm 2:00-3:30 pm	<b>Turn in verifications for Gemini/Bowl</b> State Bowl	<b>Registration Desk</b> Orange
5:00 – 6:30 pm	Buffet Dinner	Osceola/Lake
5:00 – 7:00 pm	Dress for Final Awards	
7:00 pm	<b>Final Awards</b> <b>National Office Awards</b> <i>Topic Test Round 3, Poster, Interschool, Gemini, Individual Awards, Ciphering, Division Awards, Sweepstakes</i>	Universal Center
11:30 pm	Curfew	
<b>Friday July 25, 2014</b>		
6:00 – 7:30 am	<i>Breakfast – Bring your ticket</i>	<i>Pompano's</i>
6:30 – 11:00am	Checkout	<b>Have a safe trip home!</b>

**Theme Park Admission for 2014** (Prices subject to change) All prices are Pre-Tax

**All prices below are for groups of 10 or more people. If you have less than 10 people attending the convention from your school, please email Rob Snow and he will assist you in getting the lowest possible price for your tickets. (robsnow23@yahoo.com)**

**Walt Disney World (FLORIDA SCHOOLS ONLY)**

Epcot or Animal Kingdom	\$46.00
Magic Kingdom or Hollywood Studios	\$66.00
2 day ticket (one park only)	\$129.00
2 day ticket Park Hopper ( <i>multiple parks in the same day if you want</i> )	\$150.00
3 day ticket (one park only)	\$173.00
3 day ticket (Park Hopper)	\$194.00
4 day ticket (one park only)	\$209.00
4 day ticket (Park Hopper)	\$230.00
5 day ticket (one park only)	\$242.00
5 day ticket (Park Hopper)	\$263.00

Florida schools: 1 free ticket for every 10 student tickets

**Walt Disney World (NON-FLORIDA SCHOOLS)**

Epcot or Animal Kingdom	\$95.00
Magic Kingdom or Hollywood Studios	\$90.00

**Multiple day tickets are the same as the pricing for Florida Schools listed above.**

Non-Florida schools: If you purchase 10 or more student tickets, you get 2 free tickets (maximum 2 free tickets no matter how many student tickets purchased)

**Universal Studios** (Same pricing for all)

One day (one park)	\$51 Student, \$61 Adult
One day (two parks)	\$65 Student, \$75 Adult
2 day ticket (two parks)	\$97.00
3 day ticket (two parks)	\$117.00
4 day ticket (two parks)	\$135.00

1 free ticket for every 10 student tickets

**Sea World**

Student ticket	\$53.00
Teacher ticket	\$61.00

(Florida teachers are free. You need to bring a copy of your teaching certificate, a recent pay stub and photo ID)

1 free ticket for every 10 student tickets

MU ALPHA THETA NATIONAL CONVENTION  
TRANSFER OF SPONSORSHIP FORM

Home School Information

Name of School \_\_\_\_\_

Name of Principal \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_

Sponsor's Name \_\_\_\_\_

Please list all other adults affiliated with the home school that will be attending at the bottom of this page.

Receiving Sponsor Information

Sponsor's Name \_\_\_\_\_ Chapter ID No. \_\_\_\_\_

Name of School \_\_\_\_\_

MAθ's policy states that every student that competes or attends a MAθ sanctioned event must have a school sponsor that is either a teacher or administrator at that school with them at that event. The home school named above is transferring sponsorship responsibilities for the National Mu Alpha Theta Convention to the receiving sponsor identified above. This allows the stated home school's students to participate at the national convention. The receiving sponsor assumes the responsibility of acting as sponsor for the home school student(s) for the entire convention. This is not a transfer of liability.

\_\_\_\_\_  
Home School Principal signature

\_\_\_\_\_  
Home School MAθ Sponsor signature

\_\_\_\_\_  
Receiving School Principal signature

\_\_\_\_\_  
Receiving School Sponsor signature

List of Adults from Home School (*please print*)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EARLY BIRD REGISTRATION**

**Postmark Deadline: April 1, 2014**

Payment must accompany early bird registration form.

Please print information clearly.

School Name \_\_\_\_\_ Chapter ID \_\_\_\_\_

School Address \_\_\_\_\_

Contact person \_\_\_\_\_ Summer Email \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip code \_\_\_\_\_

Phone \_\_\_\_\_

Important information will be emailed after school is out.

For early bird registration, a total of \$50 per person must be submitted postmarked no later than April 1, 2014. The remainder of the registration fee is to be paid by the final postmark deadline of May 15, 2014. If desired, students and sponsors may submit the entire cost of \$550 by the April 1, deadline. Early registration will not be refunded in any manner if the number of students pre-registered is greater than the number attending the convention. After April 1, but before May 15, the convention registration fee will be \$590 per person.

Number of students pre-registering: \_\_\_\_\_ x \$ 50 = \_\_\_\_\_

All students must be registered Associates or Members of Mu Alpha Theta.

Number of sponsors pre-registering: \_\_\_\_\_ x \$ 50 = \_\_\_\_\_

Number of pre-registrants paying in full: \_\_\_\_\_ x \$ 550 = \_\_\_\_\_

Names and number of sponsors in single rooms:

\_\_\_\_\_  
\_\_\_\_\_ x \$ 350 = \_\_\_\_\_

Total paid \_\_\_\_\_

Make check payable to:  
**Mu Alpha Theta Educational Foundation**  
Please note: 2013 Convention  
Mail to:  
**Mu Alpha Theta Convention**  
c/o University of Oklahoma  
601 Elm AVE RM 1102  
Norman, OK 73019

**NOTE: If the National Office is paying for a member of your group, please add a note specifying the names below.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FINAL REGISTRATION FORM**

**Postmark Deadline: May 15, 2014 (FINAL)**

**Payment must accompany registration form.**

Please print information clearly.

School Name \_\_\_\_\_ Chapter ID \_\_\_\_\_

School Address \_\_\_\_\_

Contact person \_\_\_\_\_ Summer Email \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip code \_\_\_\_\_

Phone \_\_\_\_\_

Important information will be emailed after school is out. Please include names and email addresses of all sponsors attending the convention.

Number of students pre-registered: \_\_\_\_\_ x \$ 500 = \_\_\_\_\_

All students must be registered Associates or Members of Mu Alpha Theta.

Number of sponsors pre-registered: \_\_\_\_\_ x \$ 500 = \_\_\_\_\_

Number of non pre-registered students: \_\_\_\_\_ x \$ 590 = \_\_\_\_\_

Number of non pre-registered adults: \_\_\_\_\_ x \$ 590 = \_\_\_\_\_

Number of sponsors in single rooms: \_\_\_\_\_ x \$ 350 = \_\_\_\_\_

Total due \_\_\_\_\_

Make check payable to:  
**Mu Alpha Theta Educational Foundation**

Please note:  
**2014 Convention**

Mail to:  
**Mu Alpha Theta Convention  
c/o University of Oklahoma  
601 Elm AVE RM 1102  
Norman, OK 73019**

Schools must submit a medical release form, medical record, indemnity agreement, and a student participation policies form for every participant. These forms are included in this packet. Please copy as many as your school needs.

**Postmark deadline: May 31, 2014.**

**Mail these forms to:**

**Rob Snow  
1317 SE First Avenue  
Deerfield Beach, FL 33441**

Participant's printed name

School

**Student Participation Policies**

Please read the following and indicate your acceptance by your signature(s) where applicable.

NOTE: NO STUDENT WILL BE GRANTED ACCEPTANCE TO 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

**Release and Indemnity Agreement**

The undersigned participant, and his/her parents or legal guardians of the participant who is a minor, in consideration of being permitted to attend the Mu Alpha Theta National Convention, and for other good and valuable consideration do hereby release, waive and discharge Mu Alpha Theta, its Governing Council and convention committee from all manner of action, causes of action, suits, damages, judgments, or claims for personal injury or death or loss of personal property, and any loss, damage, expense or cost including any lodging, meals, ground or air travel which may be incurred by either the undersigned participant or the undersigned parents or legal guardians of such participant, arising out of any participation in the national convention.

The undersigned participant and his/her parents or legal guardians agree to indemnify Mu Alpha Theta, its Governing Council and convention committee for any financial liability or damages incurred which were caused in whole or in part, by the negligence of intention act of the participant while attending the national convention.

Participant signature and date

Parent/legal guardian signature and date



**NOTE: NO STUDENT WILL BE GRANTED ACCEPTANCE TO THE NATIONAL CONVENTION WITHOUT THIS SIGNED FORM ON FILE.**

**STUDENT Medical Release Form  
(This form MUST be notarized)**

I, \_\_\_\_\_, as legal guardian of \_\_\_\_\_  
or I, \_\_\_\_\_, authorize representatives from the school, officers of Mu Alpha Theta  
sponsor or adult

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 financial responsibility for such care not covered by the following medical insurance:

Company \_\_\_\_\_ Policy # \_\_\_\_\_

Subscriber: \_\_\_\_\_ Legal Guardian's Signature \_\_\_\_\_

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:

\_\_\_\_\_

\*\*\*\*\*  
\*\*\*\*

**Video/Photo/Media Release Form**

Mu Alpha Theta may be videotaping/photographing students during the convention as well as writing articles about the convention that may appear online at the Mu Alpha Theta website. I agree to allow my child or myself , \_\_\_\_\_, to be part of the videotaping, photography, and/or media. I further release Mu Alpha Theta for any liability from this endeavor.

\_\_\_\_\_  
Legal Guardian's Signature Date

**This form must be sent in by May 31.**

**NOTE: NO SPONSOR or CHAPERONE or GUEST WILL BE GRANTED ACCEPTANCE TO THE NATIONAL CONVENTION WITHOUT THIS SIGNED FORM ON FILE.**

**Medical Release Form FOR SPONSORS, CHAPERONES or GUESTS  
(this MUST be notarized)**

I, \_\_\_\_\_, as sponsor or guest of \_\_\_\_\_ authorize representatives from the 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 financial responsibility for such care not covered by the following medical insurance:

Company \_\_\_\_\_ Policy # \_\_\_\_\_

Subscriber: \_\_\_\_\_ Sponsor or Guest Signature \_\_\_\_\_

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

\_\_\_\_\_  
Signature of Notary Public

Personally Known \_\_\_\_\_ OR Produced Identification \_\_\_\_\_  
Type of Identification Produced \_\_\_\_\_

(NOTARY SEAL)

**Include a copy of both sides of your insurance card.**

Also include other medical conditions, including allergies, the convention staff should be aware of:

\_\_\_\_\_  
\_\_\_\_\_

\*\*\*\*\*  
\*\*\*\*

**Video/Photo/Media Release Form**

Mu Alpha Theta may be videotaping/photographing sponsors or guests during the convention as well as writing articles about the convention that may appear online at the Mu Alpha Theta website. I agree to allow myself, \_\_\_\_\_, to be part of the videotaping, photography, and/or media. I further release Mu Alpha Theta for any liability from this endeavor.

\_\_\_\_\_  
Sponsor or Guest Signature Date

**This form must be sent in by May 31.**

## Chalk Talk Rules/Guidelines and Judging Sheet

I. Topics for each division are: **Theta topic – Math in the Movies**  
**Alpha topic – Rides and Rollercoasters**  
**Mu topic – Math in Walt Disney World**

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.

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

Knowledge of subject	10 points
Oral presentation skills	10 points
Use of time	10 points
Accuracy of facts	10 points
Use of chalkboard	10 points

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

### Chalk Talk Judges Sheet

Knowledge of subject	1	2	3	4	5	6	7	8	9	10
Oral Presentation Skills	1	2	3	4	5	6	7	8	9	10
Use of time	1	2	3	4	5	6	7	8	9	10
Accuracy of facts	1	2	3	4	5	6	7	8	9	10
Use of chalkboard	1	2	3	4	5	6	7	8	9	10

Total: \_\_\_\_\_

Judge’s comments:

**Poster Competition Judging Sheet**

School Name \_\_\_\_\_

School ID # \_\_\_\_\_

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.

**Use of any unauthorized materials or attachments will result in points deductions.**

**Placement of school name on front of poster will result in a 20 point deduction.**

**I. Content (40 points, maximum) \_\_\_\_\_ Total points**

\_\_\_A. Originality (10 points)

\_\_\_B. Theme Related (15 points)

\_\_\_C. Math Related (15 points)

**II. Artistic Quality (60 points, maximum) \_\_\_\_\_ Total points**

\_\_\_A. Lettering (10 points)

\_\_\_B. Artwork (10 points)

\_\_\_C. Color Coordination (10 points)

\_\_\_D. Style/Layout (10 points)

\_\_\_E. Attractiveness/Neatness (10 points)

\_\_\_F. Eye Catching Design (10 points)

**Deductions:** Use of unauthorized materials or attachments: 20 points

School name, logo, initials or any other identifying elements on front: 20 points

\_\_\_\_\_ **Total Points**  
(100 maximum)

Comments:

Scrapbook Competition Judging Sheet

School Name \_\_\_\_\_

School ID # \_\_\_\_\_

Judge's # \_\_\_\_\_

Note to judges:

- Please note that each subcategory under the five main categories is assigned a maximum point value. Write these point values in the spaces provided to the left, then total the points and write the total score for each category on the top.
- Schools are not given specific guidelines for any of the categories below other than the information provided on this judging form. Do not impose or add any of your own rules or guidelines that schools were not provided in the convention packet.

I. Cover (20 points, maximum) \_\_\_\_\_(Total points)

- \_\_\_ A. School name (1 point)
- \_\_\_ B. Mu Alpha Theta logo (1 point)
- \_\_\_ C. Year (1 point)
- \_\_\_ D. Creative use of materials (6 points)
- \_\_\_ E. Attractive design (6 points)
- \_\_\_ F. Sturdy construction/Ease of Handling (5 points)

II. Content (50 points, maximum) \_\_\_\_\_(Total points)

- \_\_\_ A. Use of visual materials (8 points)
- \_\_\_ B. Coverage of membership information and club activities (8 points)
- \_\_\_ C. Coverage of competition, contests and results (8 points)
- \_\_\_ D. Consistency of theme (8 points)
- \_\_\_ E. Variety of content material (8 points)
- \_\_\_ F. Creativity of page layout (10 points)

III. Organization (20 points, maximum) \_\_\_\_\_(Total points)

- \_\_\_ A. Method/style of organization (10 points)
- \_\_\_ B. Creativity of organization (10 points)

IV. Artistic Quality (30 points, maximum) \_\_\_\_\_(Total points)

- \_\_\_ A. Artwork/lettering (10 points)
- \_\_\_ B. Color coordination of materials (10 points)
- \_\_\_ C. Style and design (10 points)

V. Overall Effect (30 points, maximum) \_\_\_\_\_(Total points)

- \_\_\_ A. Activity level of the school's Mu Alpha Theta chapter (6 points)
- \_\_\_ B. Originality and creativity in assembling the scrapbook (8 points)
- \_\_\_ C. Completeness and thoroughness of the scrapbook (8 points)
- \_\_\_ D. WOW factor (8 points)

**\*\*Deductions:** Exceeded maximum size - 20 points.  
 Non-traditional cover - 10 points  
 Non-traditional interior - 20 points

Total Points \_\_\_\_\_  
(150 maximum)

Comments (on back): Note here if you use the back.