



Republic of the Philippines  
**Department of Education**  
REGION VIII - EASTERN VISAYAS

**Advisory No. 097, s. 2023**  
**July 28, 2023**

In compliance with DepEd Order (DO) No. 8, s. 2013  
This advisory is issued not for endorsement per DO 28, s. 2001,  
but only for the information of DepEd officials,  
personnel/staff, as well as the concerned public.  
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**VARIOUS ACTIVITIES AND COMPETITIONS IN CELEBRATION OF THE  
35<sup>th</sup> MATHEMATICAL SCIENCES WEEK (MSW) OF UP LOS BAÑOS**

Attached is a communication from MS. Cristelle E. Castillo and Mr. Jhanel Joshua G. Orpia, Vice-President for Scholastics Division and President, respectively, of the University of the Philippines Los Baños Mathematical Sciences Society (UPLB MASS).

The UPLB MASS shall conduct various activities and competitions in celebration of their 35<sup>th</sup> Mathematical Sciences Week on October 14-21, 2023 with the theme: "AI Captain! Exploring the Vast Expanse of Artificial Intelligence."

The activity aims to promote deeper appreciation and wider application of mathematical sciences.

The target participants are junior and senior high school students, classroom teachers, and principals/school heads from both public and private schools.

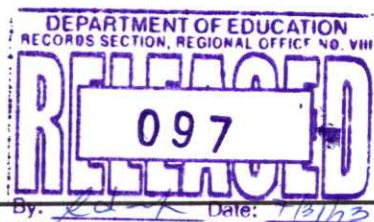
Participation of both public and private schools shall be subject to the *no-disruption-of-classes policy* stipulated in DepEd Order No. 9, s. 2005 entitled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith*.

More information may be inquired from:

Mr. Jhanel Joshua G. Orpia  
UP Los Baños Mathematical Sciences Society (UPLB MASS)  
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Considering that this is an Advisory, Schools Division Superintendents are given the discretion to act on this matter.

HRDD-CDPA



9339

By: [Signature] Date: 7/28/23



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# UNIVERSITY OF THE PHILIPPINES LOS BAÑOS MATHEMATICAL SCIENCES SOCIETY

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24 July 2023

**Evelyn R. Fetalvero**  
*Regional Director, Region VIII*  
Department of Education



**RE: Advisory of the 35<sup>th</sup> Mathematical Sciences Week (MSW)**

Dear Ms. Fetalvero:

Warm greetings!

We are the **UPLB Mathematical Sciences Society (UPLB MASS)**, a duly recognized organization of the University of the Philippines Los Baños. In our 49 years of existence we have been committed in promoting deeper appreciation and wider application of mathematical sciences by involving our university constituents and the Filipino masses.

In line with this objective, we will be conducting our **35<sup>th</sup> Mathematical Sciences Week** this incoming **14<sup>th</sup> to 21<sup>st</sup> of October 2023**. This year, we have decided to focus on Mathematics in Artificial Intelligence with the theme, **"AI Captain! Exploring the Vast Expanse of Artificial Intelligence"**.

The following are the activities and competitions that will be held for the said event:

### 1. 35<sup>th</sup> National Mathematical Challenge (MATHEMATCH)

- A 3-member team quiz contest open to all Junior High School and Senior High School students nationwide.

### 2. Poster Making Competition

- An art competition open to all Junior High School and Senior High School students nationwide that will showcase and test their creativity through integrating the underlying mathematical science concepts related to this year's theme.

### 3. Teacher's Seminar

- A seminar for the coaches/teachers of the participating students in the 35<sup>th</sup> National Mathematical Challenge (MATHEMATCH) and the Poster Making Competition.



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#### 4. 47<sup>th</sup> Annual Search for the UPLB Math Wizard

- A quiz contest for college students (UPLB students only) that will challenge their knowledge in Algebra, Calculus, Geometry, Statistics, and Trigonometry.

#### 5. Puzzle of the Week

- Week-long puzzles will be posted before and until the celebration week to challenge the minds of the masses.

In this regard, we would like to ask for your *good office* for the **issuance of DepEd Advisory** of the following events and its **dissemination** to the secondary schools of the region.

- 35<sup>th</sup> National Mathematical Challenge (MATHEMATCH)
- Poster Making Competition
- Teacher's Seminar
- Puzzle of the Week

This is so that we may be able to expand our reach and allow the participation of more schools in our activities that would hugely contribute to this event's objective. For your perusal, attached are more details regarding our organization and the said event.

We are hoping for your favorable response on this matter. Thank you very much!

Sincerely yours,

CRISZELLE E. CASTILLO  
Vice President of the Scholastics Division

JHANEL JOSHUA G. ORPIA  
President

Recommending Approval:

ASST. PROF. RAMONCITO G. CABEL  
Senior Adviser



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## ORGANIZATIONAL BACKGROUND

The UPLB Mathematical Sciences Society, established in 1973, has been one of the duly recognized academic organizations of the University of the Philippines Los Baños. It is comprised of BS Applied Mathematics, BS Computer Science, BS Mathematics and Science Teaching Major in Math, and BS Statistics students who are committed to upholding the goal of the society: to contribute to the development of the Filipino nation by cultivating deeper appreciation and wider application of mathematical sciences, by fostering academic excellence towards social relevance, and by being involved with the rest of the university constituency and Filipino masses.

## CONTACT INFORMATION

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**E-mail Address:** uplbmass1973@gmail.com

<b>Mobile Number:</b>	+63 9157854429	Crizelle E. Castillo {Vice President for Scholastics Division}
	+63 9778029363	Rosherlyn Franz D. Valdez {Scholastics Division Secretary}
	+63 9661853301	Jhanel Joshua G. Orpia {President}



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## EVENT INFORMATION

Event Name: 35<sup>th</sup> Mathematical Sciences Week  
Date: October 14, 2023 - October 21, 2023

## SCHEDULE OF ACTIVITIES

DATE	TIME	ACTIVITY / EVENT
October 2, 2023 (Mon)	10:00 AM	Posting of Puzzle of the Week 1
October 6, 2023 (Fri)	8:00 PM	Announcement of Winners of Puzzle of the Week 1
October 9, 2023 (Mon)	10:00 AM	Posting of Puzzle of the Week 2
October 13, 2023 (Fri)	8:00 PM	Announcement of Winners of Puzzle of the Week 2
October 14, 2023 (Sat)	9:00 AM - 11:00 AM	35th National Mathematical Challenge (MATHEMATCH) Preliminary Round
		Poster Making Competition
		Teachers' Seminar
	1:00 PM - 5:00 PM	35th National Mathematical Challenge (MATHEMATCH) Final Round
October 16, 2023 (Mon)	10:00 AM	Posting of Puzzle of the Week 3
October 20, 2023 (Fri)	8:00 PM	Announcement of Winners of Puzzle of the Week 3
October 20, 2023 (Fri)	7:00 PM - 9:00 PM	47th Annual Search for the UPLB Math Wizard Preliminary Round
October 21, 2023 (Sat)	1:00 PM - 5:00 PM	47th Annual Search for the UPLB Math Wizard Final Round



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## CONTEST AND EVENT DETAILS

### 1) 35<sup>TH</sup> NATIONAL MATHEMATICAL CHALLENGE (MATHEMATCH)

#### GENERAL INFORMATION

The UPLB Mathematical Sciences Society annually hosts the Southern Tagalog Invitational Mathematical Challenge, better known as MATHEMATCH. In line with the Society's goal of promoting deeper appreciation and wider application of mathematical sciences, and following the success of last year's National Mathematical Challenge (MATHEMATCH), the Society is again conducting this competition nationwide on its 35th iteration.

#### I. ELIGIBILITY

- A. MATHEMATCH is a team competition open to all high school students from any secondary schools (public or private) nationwide.
- B. Each participating school can send a **maximum of two (2) teams** consisting of **3 students only** with at least one junior high school student in each competing team.
- C. Participation in this competition means adhering to the competition guidelines set by the UPLB Mathematical Sciences Society.

#### II. INTEGRITY

- A. It should be the responsibility of everyone concerned, including but not limited to the UPLB Mathematical Sciences Society members, event partners, judges, and participating schools to protect and maintain the integrity of this competition.

#### III. REGISTRATION AND DEADLINES

##### 1. REQUIREMENTS

- A. Interested participants should register through [https://bit.ly/35thMATHEMATCH\\_Registration](https://bit.ly/35thMATHEMATCH_Registration) to secure their slots for the competition. The registration period shall start on **September 4, 2023, 8:00 AM** and end on **September 30, 2023, 5:00 PM**. Only a maximum of **40 schools** will be accommodated, following a **first come, first served basis**. The **first three teams to register** with complete and verified requirements will be given a **15% discount** for their registration fee.
- B. Upon registration, participants must accomplish and submit the following in pdf:
  1. A copy of their most recent *School ID* (in case the school has not yet issued their school ID for A.Y. 2023-2024, the participant can submit *any high school ID or valid ID with the participant's picture*);
  2. Any *Proof of Enrollment* for A.Y. 2023-2024 (*Certificate of Enrollment signed by the*



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*school's registrar or principal, participants may also use this template:*  
[https://bit.ly/35thMATHEMATCH\\_COE](https://bit.ly/35thMATHEMATCH_COE); and,

3. *Consent Form signed by either parent / guardian*  
[https://bit.ly/35thMATHEMATCH\\_CE](https://bit.ly/35thMATHEMATCH_CE).

C. The UPLB Mathematical Sciences Society reserves the right to extend the registration period. In case of such adjustments, announcements will be made through the official page of MATHEMATCH ([facebook.com/NatlMATHEMATCH](https://facebook.com/NatlMATHEMATCH)).

## 2. REGISTRATION FEE AND PAYMENTS

A. The **registration fee** for this competition is **Php 1,800 per team**. This fee will cover expenses related to the competition but not accommodation for participants. If the participant needs accommodation for the competition, the UPLB MASS may give a list of accommodations but is not liable for the expenses of it.

B. Upon submission of the registration form, an invoice will be sent via email containing details and instructions for registration fee payment. **The slot for the team will only be considered confirmed once payment has been made.**

C. The **deadline of payment is until October 3, 2023**. Payments to be made beyond the deadline and until October 10, 2023 is subjected to a penalty of Php 200.

D. The UPLB Mathematical Sciences Society reserves the right to extend the payment deadline. In case of such adjustments, announcements will be made through the official page of MATHEMATCH ([facebook.com/NatlMATHEMATCH](https://facebook.com/NatlMATHEMATCH)).

## IV. COMPETITION MECHANICS

### A. GENERAL MECHANICS

1. The competition will cover topics in **Algebra, Arithmetic, Calculus, Geometry, Logic, Statistics, and Trigonometry**. Well-screened questions will be verified by UPLB Mathematics professors who will also serve as judges in the final round.
2. The entire competition shall be held on **October 14, 2023**. The registration will **start at 7:00 AM**. Contestants may proceed to their respective room assignments by 8:30 AM, thirty (30) minutes before the start of the preliminary round.
3. The preliminary round shall start at **exactly 9:00 AM** while the final round shall start at exactly **1:00 PM** of the same day.
4. The contestant must be at the designated venue at least thirty (30) minutes before the start of the competition.
5. The venue for both preliminary and final rounds are to be announced but will be held inside the University of the Philippines Los Banos campus.
6. There shall be no changes made in the line-up of the contestants once the registration has ended. In case one of the students cannot participate in the competition for any valid reason, the school should send an email to UPLB MASS stating the reason for



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- non-participation of the student and shall provide an alternate student.
7. The use of calculators, slide rules, mathematical tables, gadgets, electronic devices, and the like by the contestants is **NOT ALLOWED** in the competition. The use of gadgets or electronic devices such as cell phones and tablets, by the audience in taking pictures of the questions is **STRICTLY PROHIBITED**.
  8. Clarification regarding the rules and regulations shall be entertained by the Academic Affairs Committee of the UPLB Mathematical Sciences Society before the competition.
  9. The UPLB Mathematical Sciences Society reserves the right to disqualify any contestants who will not follow the competition guidelines. The organization also reserves the right to change and amend the competition rules given that there is enough time to disseminate the information.

## B. PRELIMINARY ROUND MECHANICS

1. The preliminary round will be in the form of a **closed-door individual written examination** where scores of 3 members of the team will be added.
2. The contestants shall be given **two (2) hours** to answer the **40 questions**. For detailed instructions for the answer to the questions, please refer to **Section V** of the guidelines.
3. Contestants who arrive late will still be allowed to take the examination. However, no time extension will be given to them.
4. For this round, each contestant will be given a questionnaire and an answer sheet. Scratch papers will also be provided. A contestant must write their final answers on the answer sheet **using black or blue ink only**.
5. Misbehavior of a contestant during the examination such as cheating, physical aggression, and disruptive behavior, as determined by the proctor, is sufficient condition for the disqualification of the contestant concerned.
6. The **Top fifteen (15) teams** who will garner the highest accumulated scores in the elimination round will advance to the **final round**.

## C. FINAL ROUND MECHANICS

1. The final round will be in the form of a **timed oral examination** and shall be conducted in English.
2. Clarifications from the contestants will be acknowledged only after the correct answer for that question has been given by the quizmaster. The contestant should raise their hand should they have any clarifications.
3. The contestant may speak once they are recognized by the quizmaster. Afterwards, the contestant may address his question or clarification to the judges. The judges' decision is final and irrevocable.
4. A strip of paper containing the question shall be given to each team. Answers to the question must be written on the answer sheet provided.
5. The final round will be divided into 3 rounds - Easy, Average, and Difficult.





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- a. Easy Round
    - Ten (10) questions will be asked. Each question will be read twice.
    - Each team will be given thirty (30) seconds to answer each question.
    - A correct answer garners 5 points. Wrong answers and no answers will garner no points.
  - b. Average Round
    - Seven (7) questions will be asked. Each question will be read twice.
    - Each team will be given sixty (60) seconds to answer each question.
    - A correct answer garners 7 points. Wrong answers will result in a deduction of 3 points. No answers will garner no points.
  - c. Difficult Round
    - Five (5) questions will be asked. Each question will be read twice.
    - Each team will be given ninety (90) seconds to answer each question.
    - A correct answer garners 10 points. Wrong answers will result in a deduction of 5 points. No answers will result in a deduction of 3 points.
  - d. Tie breaker Round
    - The tie breaker round is only for the case of a tie in the Top 3 positions after the difficult round.
    - Questions are to be asked until one team gets the correct answer. Each question will be read twice.
    - Teams may start answering the questions after the question is read once.
    - Teams will be given sixty (60) seconds to answer each question.
    - The first team to submit the correct answer will be declared the winner for the tie-breaker round.
6. The accumulated points from the Easy, Average, and Difficult Rounds shall determine the winners for this competition.

## V. INSTRUCTIONS FOR ANSWERS

1. Answers should be in simplest form unless specified.
2. Fractions should be in lowest terms.
3. Do not express your answers in decimal form.
4. Answers should have units when applicable.
5. If a question asks for more than one answer, separate your answers using comma/s. (eg. 2,3,5)
6. Do not approximate constants such as  $e$  or  $\pi$ .
7. Use dash(-) for negative and/or subtraction signs.
8. Leave the answer sheet blank if you do not have an answer for the item.



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## VI. WINNERS AND PRIZES

- Participants will receive certificates for their participation.
- The Top 15 team finalists will each receive a certificate of recognition.
- The Top scorer for the preliminary round will receive a certificate of recognition and medal.
- The final round winners will receive certificates of recognition and the corresponding prizes:

Place	Prize
1st Place	PhP 15,000 cash, 3 medals, and a trophy
2nd Place	PhP 10,000 cash, 3 medals and a trophy
3rd Place	PhP 5,000 cash, 3 medals and a trophy

- The winners of this competition will be announced after the tabulation of scores. A separate post for the winners of this competition will also be published through the official page of MATHEMATCH ([facebook.com/NatlMATHEMATCH](https://www.facebook.com/NatlMATHEMATCH)).

## 2) POSTER MAKING COMPETITION

### I. ELIGIBILITY

- This Poster Making Competition is **open to all Junior and Senior High School students nationwide**.
- Each participating school must be represented by **1 registered student** only.
- Participation in this competition means adhering to the competition guidelines set by the UPLB Mathematical Sciences Society.

## II. REGISTRATION AND DEADLINES

### 1. REQUIREMENTS

- Interested participants should register through [https://bit.ly/35thMSW\\_PosterMakingRegistration](https://bit.ly/35thMSW_PosterMakingRegistration) to secure their slots for the competition. The registration period shall start on **September 4, 2023 at 10:00 AM** and will end on **September 30, 2022 at 5:00 PM**. Only a maximum of **40 participants** will be accommodated, following a first come, first served basis.



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- B. Upon registration, participants must accomplish and submit the following in pdf:
1. A copy of their most recent *School ID* (in case the school has not yet issued their school ID for A.Y. 2023-2024, the participant can submit *any high school ID* or *valid ID with the participant's picture*).
  2. Any *Proof of Enrollment* for A.Y. 2023-2024 (*Certificate of Enrollment signed by the school's registrar or principal, participants may also use this template: [https://bit.ly/35thMSW\\_PosterMakingCOE](https://bit.ly/35thMSW_PosterMakingCOE)*); and
  3. *Consent Form* signed by either parent / guardian ([https://bit.ly/35thMSW\\_PosterMakingCF](https://bit.ly/35thMSW_PosterMakingCF)).
- C. The UPLB Mathematical Sciences Society reserves the right to extend the registration deadline. In case of such adjustments, registered participants will be notified *via email*.
- 2. REGISTRATION FEE AND PAYMENTS**
- A. The **registration fee** for this competition is **PhP 200 per participant**. In case that the participant came from a participating school of the MATHEMATCH, the registration fee is subject to 25% discount, thus the participant shall pay PhP 150 only. The fee will cover expenses related to the competition and for the food of the participant.
- B. Upon submission of the registration form, the Finance Committee will send an invoice to the submitted email address in the registration form containing details and instructions for registration fee payment. The **slot for the participant will only be considered confirmed once payment has been made**.
- C. The **deadline of payment is until October 3, 2023**. Payments to be made beyond the deadline and until October 10, 2023 is subjected to a penalty of PhP 100.
- D. The UPLB Mathematical Sciences Society reserves the right to extend the payment deadline. In case of such adjustments, registered participants will be notified *via email*.

### III. COMPETITION PROPER

- A. Participants shall create a poster that expresses their creativity in integrating the underlying mathematical concepts in relation to the 35th Mathematical Sciences Week themed - "*AI Captain! Exploring the Vast Expanse of Artificial Intelligence*".
- B. All entries must be drawn using **oil pastel** only. Each participant must provide their own oil pastel.
- C. All entries must be done on a  $\frac{1}{2}$  illustration board to be provided by UPLB MASS.
- D. The competition will be conducted simultaneously with MATHEMATCH's preliminary round on **October 14, 2023 from 9:00 AM to 11:00 AM**. Participants will be given a maximum of two hours to finish their entries.
- E. The UPLB Mathematical Sciences Society shall have the sole right to post the entries in the official Facebook page of UPLB MASS.



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## IV. CRITERIA FOR JUDGING

A. Entries will be judged using the following criteria:

Originality (15%)	Points
The poster portrays innovative ideas and fresh perspectives.	7.5
The poster displayed uniqueness in design and sets it apart from others.	7.5
Style (15%)	
The elements used in the poster such as color scheme, layout and typography are coherent.	7.5
The overall aesthetic of the poster follows the principles of symmetry, pattern, perspective and proportion.	7.5
Content (30%)	
The concepts of mathematics in artificial intelligence are effectively translated to visual form.	15
The illustrations used are necessary and relevant to the concept of artificial intelligence.	15
Relevance to the Theme (40%)	
The poster aligns with concepts related to mathematics behind artificial intelligence.	20
The poster conveys a clear understanding of the application of mathematics in artificial intelligence through the design elements.	20
TOTAL	100

B. The judges' decision is final and irrevocable.

## V. WINNERS AND PRIZES

- Winners will be announced during the awarding ceremony of MATHEMATCH winners.
- Participants will receive a certificate for their participation.
- There will be three winners for this competition. The 1st Place, 2nd Place, and 3rd Place Winners. The winners will receive certificate of recognition and the corresponding prizes:



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Place	Prize
1st Place	PhP 3,000 cash and medal
2nd Place	PhP 2,000 cash and medal
3rd Place	PhP 1,000 cash and medal

### 3) TEACHER'S SEMINAR

- I. The seminar is **open to all teachers and coaches** participating in MATHEMATCH and Poster Making Contest.
- II. There is **no entry or registration fee** for this event.
- III. The seminar will be held on **October 14, 2023, 9:00 AM to 11:00 AM**, while the participating students are in the preliminary round of MATHEMATCH and in the Poster Making Contest.
- IV. The venue for the event is to be announced. Updates regarding the event will be posted in the official Facebook page of UPLB MASS ([facebook.com/uplbmass1973](https://facebook.com/uplbmass1973)).
- V. A certificate of participation will be given to each participant of the seminar.

### 4) PUZZLE OF THE WEEK

- I. The Puzzle of the Week is **open to all interested participants nationwide**. This contest will run from **October 2, 2023 to October 20, 2023**.
- II. There is **no entry or registration fee** for this contest.
- III. Participants must wait for the puzzle to be
  - A. published on the official page of UPLB MASS ([facebook.com/uplbmass1973](https://facebook.com/uplbmass1973)) every Monday at 10:00 AM of that week; or
  - B. posted on bulletin boards of Math Building and Physci Building every Monday of that week.
- IV. Participants shall answer the puzzle by commenting on the post with the correct answer, hashtags of the event, and tagging three friends.
- V. Participants can only participate until Friday, 5:00 PM of that week.
- VI. There will be three winners for this contest: the first participant who answered the puzzle correctly and two randomly chosen participants who also answered the puzzle correctly.
- VII. The names of the winners, together with the solution to the puzzle, will be posted in the Facebook Page of UPLB MASS every Friday, 8:00 PM of that week
- VIII. Winners shall receive Php 150 each. The processing of prizes will happen after the event has concluded.



OFFICE OF THE VICE CHANCELLOR FOR STUDENT AFFAIRS  
UNIVERSITY OF THE PHILIPPINES LOS BAÑOS

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*Office of Student Activities*

19 July 2023

**CERTIFICATION**

This is to certify that UPLB MATHEMATICAL SCIENCES SOCIETY is a duly registered academic organization of the University of the Philippines Los Baños (UPLB) for two academic years starting 2<sup>nd</sup> semester A.Y. 2022-2023 until 1<sup>st</sup> semester A.Y. 2024-2025.

This certification is issued to the abovementioned for whatever legal purpose it may serve.

  
MOSES O. VILLANUEVA  
OIC-Director, OSA