14. Similarly, if an ordinary chip takes a “dama” or a “dama” takes another “dama” the score is both situations is doubled. (x two) (xfour)
15. A player can take one chip or more than one chip with the required option to take the greater number of chips.
16. Between a “dama” taking a chip and a chip taking another chip, the former is obliged. Between an “dama” taking a chip and a “dama” takes two or more chips, the latter prevails.
17. “Dama” chip should be identified by encircling the chip in the score sheet.
18. The game ends after 20 minutes
19. The game also ends if: a) the moves are repetitive.
   b) a player has no move
   c) a player has no more chip
   d) a chip is cornered
20. The remaining chips or chip of a player is added to his total score.
21. The player with greater total score in DaMath is declared the winner for which he/she entitled to one (1) point in the tally sheet of contestant or one-half (0.5) point in case of draw.
22. If the remaining chip is a “dama”, the value of the chip is doubled.
23. The player may or may not use a calculator.
24. Players are forbidden to dictate the move, answer, etc of his opponent. He is given a warning for his misbehavior, three (3) warnings means disqualification.
25. Only players are allowed to raise question during the game through the arbiter and should be solved immediately. Coaches are barred to see/examine/scrutinize the score sheets.
26. No questions will be entertained after the game. Once the players and the arbiter signed the score sheet, the result is official, final and irrevocable.

QUADRATIC DANCE - Contest Mechanics

1. A team of 10 participants (including props men) from Grade 7 to Grade 12 (at least 1 entry per grade).
2. Each team must execute the following quadratic functions:
   1. \( Y = x^2 \)
   2. \( Y = -2x^2 - 3 \)
   3. \( Y = 2(x + 5)^2 \)
   4. \( Y = -x^2 + 5 \)
   5. \( Y = 2/5(x - 4)^2 - 5 \)
   6. \( Y = 2x^2 + 2 \)
   7. \( Y = -2x^2 - 4 \)
   8. \( Y = 1/2(x + 2)^2 + 4 \)
   9. \( Y = 2x^2 - 7 \)
   10. \( Y = -3(x - 6)^2 \)
   11. \( Y = 3(x + 5)^2 \)
   12. \( Y = -3x^2 + 5 \)
   13. \( Y = -2(x - 2)^2 \)
   14. \( Y = 2x^2 - 3 \)
   15. \( Y = -3(x + 6)^2 \)
3. The team will choose their own music and do some adlibs and choreography.
4. The execution is limited to 5 minutes including entrance and exit. A deduction of 5% from the general average will be imposed for every one minute extension. (No deduction for less than 1 minute extension; 2 minutes extension means 10% deduction from the general average).
5. Props may be used to add beauty in their dance but not included in the criteria for judging.
6. Costume must be the PE uniform of the school.
7. The competition is categorized as Hip Hop Quadratic Dance competition.

**CRITERIA FOR JUDGING**

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<tr>
<th>Criteria</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Proper execution of functions</td>
<td>35%</td>
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<tr>
<td>Timing and Coordination</td>
<td>25%</td>
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<tr>
<td>Choreography</td>
<td>30%</td>
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<tr>
<td>Stage Performance</td>
<td>10%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
c. Radical DaMath (one contestant per school)
   Arbiters:
   Gideon Miyas, Jr, Lala NHS
   Nilo Tiongco, Liangan NHS
   Ralph Sayon, Kapatagan NHS
   Eric Lamis, Maigo NHS

d. Polynomial DaMath (one contestant per school)
   Arbiters:
   Elvira Abella, Maigo NHS
   Nanayaon Mangoranda, Pantao Ragat AIHS
   Emerson Madromero, Lala Proper IS
   Joselito Taoc, Lala NHS

   Documenter: Judith Hechanova, LNNCHS

G. SUDOKU CONTEST – (one contestant per school)
   In-charge: Domiciano Lanticse, Lala NHS

   Judges: Juan Alimasag, Linamon NHS (Chairman)
   Analiza Salupan, Panoloan NHS
   Hydee Herbito, Tagoloan NHS

   Documenter: Cherry Joy Ebo, LNNCHS
   Adviser: Marichu Licanda, Sergio Cerujales NHS

H. AWARDS COMMITTEE – Maita Bauya, Teofila Quiabranza NHS (Chairman)
   Gemma Mission, Arsenio Quiabranza NHS
   Cresenciano Canama, Magsaysay NHS
   Gena Dayondon, Liangan NHS
   Estrellita Pacana, LNNCHS

   Overall chairman - LORRAINE C. OLAVIDES, EPSvr
   Co- chairmen - MARIFE B. VICOY, PSDS of Baroy & Tubod district
                   - APOLO NIO M. MAROHOM, PSDS of Bacolod, Linamon and Matungao
distric ts

3. A registration of Twenty pesos (Php20.00) shall be collected from each participant/contestant and coaches to defray the expenses for prizes, traveling and other incidental expenses chargeable to school funds subject to the usual government accounting and auditing rules and regulations.

4. Attached are the contest mechanics. Contest incharge together with the contest advisers should meet with the coaches to discuss ground rules before the start of the contest.

5. Documenter in every event must submit the official contest results to the Award Committee and tender a narrative report to the management/division office one week after the activity through email address lorraine.olavides@deped.gov.ph.

6. Moreover, each school is advised to submit the accomplished entry forms (see attachment) on November 27, 2017 to the Division Math Supervisor through email address lorraine.olavides@deped.gov.ph. WALK-IN CONTESTANTS will not be entertained.

7. The contestants of Mr. & Miss Math Wizard are advised to report to LNNCHS on November 29, 2017, 10:00 AM for the written test.

8. Final meeting of chairmen and incharge of each committee will be on November 29, 2017 at LNNCHS.

9. Immediate dissemination of and strict compliance with this memorandum to all concerned is highly enjoined.
DA MATH - Contest Mechanics

1. One player per year level will compete on:
   a. Integer Damath Grade 7
   b. Rational Damath Grade 8
   c. Radicals Damath Grade 9
   d. Polynomial Damath Grade 10
2. Every player must bring his/her own “Damath Board and Chips” and calculator.
3. Draw lots will be done to determine their opponent. If ever there is an excess player, he/she will serve as “bye”.
4. “Rules of Damath” will be used as basis for playing.
5. The player with the greater accumulated total score wins the game.
6. Rules in “Single Elimination” will be used.
   (Say: All winners in Game 1 will compete or play in Game 2. All winners in Game 2 will play in Game 3 until one (1) winner be declared. Losers in every game will be eliminated.)

RULES OF DAMATH

1. The competition is a knock out system and for the championship round, 2 out of 3 games is required to determine the champion.
2. Set the starting positions of the chips.
3. Toss a coin to decide who move first.
4. Touch move shall be observed in the game. A player who touches a chip is required to move unless it is illegal to do so.
5. After making a move, a player shall record his move in one score sheet.
6. Only one score sheet is allowed to be accomplished alternately by the two players whereby incorrect entries (in the score) shall be their responsibility. In case of incorrect entries in the score sheet, a player has to immediately call the attention of the competition facilitator by raising one’s hand, that is, after stopping the time. As determined by the said facilitator, the appropriate corrections will be done by the erring player in as much as the former’s decision is final and unappealable.
7. Each player is only allowed one minute to move including the recording of the move and score in the score sheet.
8. The arbiter, if there is no move, gives a warning to the player after one minute, and consequently, he is forced to move a chip.
9. Continuous violation of this rule #8 will disqualify the player even if he is leading in the score sheet at the time of the violation, 4th violation means disqualification.
10. A chip has to take the opponent’s chip diagonally forward or backward, thus, “pass” is not allowed. Mathematical operations (+, -, x, ÷) will be used depending on the vacant square’s operation symbol where the “taker” chip lands by jumping over the ”taken” chip (the latter chip has to be removed from the board after performing the indicated mathematical operation and recording same in the score sheet).
11. In taking more than one chip, the “taker” chip is always the addend, minuend, multiplicand, or divisor as the case may be.
12. A chip is declared a “dama” if it reaches and steps terminally in any of the following squares of the opposing player.

   (1,0)  (3,0)  (5,0)  (7,0)

Similarly, the opposing player’s chip is declared a “dama” if it reaches and stops terminally in any of the following squares:

   (0,7)  (2,7)  (4,7)  (6,7)

13. Once a chip is declared a “dama”, it could slide diagonally forward in any vacant square provided no opposing chip block it. It could take a chip or chips and double the score.
D. QUADRATIC DANCE (8 to 10 contestant per school)
In-charge: Felicidad Fernandez, Lala NHS
Advisers: Marilou Apat, Salvador NHS Letecia Lagura, LNNCHS
Judges:

**Cluster 1**
- Marilou Apat
- Bengenida Nisisan
- Dante Alboroto
- Superiano Maglangit
- Wahab Smith

**Cluster 2**
- Rene Monteza
- Letecia Lagura
- Marichu Licanda
- Rodulfo Villarosa
- Jocelyn Manosa

Documenters: Rodjessa Valdehuesa, Kapatagan NHS
Jonathan Bienes, Andres Bersales NHS
Tabulators: Ace Amir Prescillas, LN Provincial Science & Technology HS
Loreto Segovia Jr., SND Integrated School

E. SEARCH for MR. & MISS MATH WIZARD 2017
Advisers: Rodulfo Villarosa, Kapatagan NHS; Superiano Maglangit, Teofila QNHS
Judges: Belen T. Bastillada (Chairman)
Robin Tabor, EPSvr
Connie Emborong, EPSvr

Program/Presentation Preparation: Eddie Borongan, Jeffrey Fabian Barrientos, Julieta Ligue, Geronima Cabrera NHS

Trophies and Numbers for the Candidates: Marcela M. Mabanta NHS

Donors of the Trophies and Sashes
- Liangan NHS – 2 trophies for the 1st Runners Up
- Linamon NHS – 2 trophies for the 2nd Runners Up
- Maigo NHS – 2 trophies for the 3rd Runners Up
- Salvador NHS – 2 trophies for the 4th Runners Up
- Kapatagan NHS - Mr. Math Wizard 2017
- Lala NHS – Ms. Math Wizard 2017
- LNNCHS – all sashes of the winning candidates

Documenters: Analyn Nagal, Diego Patigayon NHS and Rosano Rosacia, LNNCHS
Tabulators: Lloyd Bagnican, Salvador NHS and Gemma Bonocan, LNNCHS

F. DAMATH COMPETITION
In-charge: Elsa Monteza, Salvador NHS
Advisers: Rene Monteza, Linamon NHS; Bengenida Nisisan, Marcela Mabanta NHS

a. Integer DaMath (one contestant per school)
Arbiters:
- Cheryl Reyes, LNNCHS
- Emma dela Torre, Kapatagan NHS
- Rey Fernandez, Lala Proper IS
- Glenn Mahina, Lala NHS

b. Rational DaMath (one contestant per school)
Arbiters:
- Elmer Branzuela, Salvador NHS
- Arlene Tudela, Kapatagan NHS
- Penorio Muata, Lala Proper IS
- Evangeline Abuton, Linamon NHS
SEARCH FOR MR & MISS MATH WIZARD  Contest Mechanics

1. The Search for Mr. & Ms. Math Wizard 2017 is purely a beauty and brain competition which provides a venue for the students to hone their skills and God-given talents.

2. Each participating school shall have two official candidates: one male candidate and one female candidate.

3. The exposures to be showcased by the candidates during the pageant are (1) Production Number where candidates will wear white t-shirt and jeans attire, (2) School Uniform, and (3) Dream Career Attire.

4. A 20-item Written Examination will be administered to the candidates one week before the contest, November 29, 2017, 10:00AM at LNNCHS. The results will be ranked, the top 10 scorers of the said examination will be included in the Top 10 Finalists and proceed to the next round on December 5, 2017. Questions will be prepared by the Education Program Supervisor in Mathematics.

5. The criteria for judging for the different exposures are as follows:

   **A. Production Number**
   
   Beauty of the Face - 30%
   Mastery & Gracefulness - 25%
   Fitness & Style - 20%
   Poise & Bearing - 15%
   Stage Presence & Overall Impact - 10%
   TOTAL - 100%

   **B. School Uniform**
   
   Beauty of the Face - 30%
   Poise & Bearing - 25%
   Fitness & Style - 20%
   Stage Presence - 15%
   Overall Impact - 10%
   TOTAL - 100%

   **C. Dream Career Attire**
   
   Beauty of the Face - 30%
   Elegance - 25%
   Fitness & Style - 20%
   Poise & Bearing - 15%
   Stage Presence & Overall Impact - 10%
   TOTAL - 100%

6. To determine the Top 5 Finalists both Male & Female Categories, the following percentage composition will be applied in the Elimination Round:

   Production Number - 20%
   School Uniform - 20%
   Formal/Casual Attire - 20%
   Written Examination - 40%
   TOTAL - 100%

8. The Top 5 Finalists will advance to the Final Round which is the Question & Answer Portion. Questions to be asked to the candidates will be related to Mathematics. In this level, scores in the Elimination Round will have no bearing. Thus, the “Back-to-Zero” system will be implemented.

9. In choosing the Mr. & Ms. Math Wizard 2016 and their Runners Up, the criteria for judging are as follows:

   Beauty (which include Personality & Self Confidence) - 50%
   Intelligence (which includes Content, Delivery, & Diction) - 50%
   TOTAL - 100%

10. The decision of the Board of Judges, once announced, is final and irrevocable.
TEAM QUIZ

Contest Mechanics

1. The competition is an oral contest.
2. The team is composed of four (5) contestants, one (1) from each grade level.
3. The contestants will write their answers on the meta strip provided for as official answer sheet. Before a question is read, the contestants must raise their pencil or pen.
4. Questions will be read twice by the Quizmaster. The contestants will answer each question according to the time allotted on each round. Time starts when the Quizmaster says “GO”
5. After the time limit and the buzzer sounds, the contestants will automatically give their answer sheets to the proctors and then hand to the board of judges.
6. The board of judges will segregate the correct from the wrong answers. The chairman then will give the correct answer and announce the contestants with correct answer.
7. There are three rounds composed of 20 questions:
   a. Part I - Easy round is composed of 10 questions; **15 seconds** per question, each question worth 1 point.
   b. Part II – Average round is composed of 5 questions answerable within **30 seconds** each question worth 2 points.
   c. Part III – Difficult round is composed of 5 questions and should be answered within **60 seconds**, each question worth 3 points.
8. Answers must be complete with units when necessary. However, if the unit is already given in the way the question is asked, it need not be given in the answer.
9. After each round, the contestants’ scores are taken. At the end of Part III, the sub scores are added to get the grand total. The contestant who gets the highest number of points is automatically declared the champion; and the second (2nd) and third (3rd) highest --- the Runners – up.
10. Only the contestants can ask for clarification/protest regarding the question/answer read before the Quizmaster reads the next question and this will be addressed to the board of judges. However, the Board of Judges must not entertain any and all protest after the next question is read or after the announcement of winners.
11. Should there be a tie among the contestants vying for the first three (3) places, the contest continues to the Clincher Round to determine the Champion or the Runners – up as the case may be. In the Clincher Round, three questions will be asked, each worth 5 points.
12. If the tie is not broken after the three questions, “do-or-die” questions will be given until a winner is declared.
13. The total number of points of the tied contestants will revert back to zero (0).
14. The decision of the board of judges is final.
15. The top three winners will be awarded with medals and certificates.
DIVISION MEMORANDUM
No. 326 s. 2017

To: Secondary School Principals
   School Math Coordinators
   Math Teachers
   This Division

From: EMMALINDA E. DUHAYLUNGSOD, Ph.D., CESO V
       Schools Division Superintendent

Date: November 20, 2017

Subject: DIVISION MATHEMATICS OLYMPICS - Secondary

1. The field is hereby informed that the Division Mathematics Olympics for Secondary will be on December 5, 2017 at 8:00 AM at Geronima Cabrera National High School. This year’s theme: “Empowerment Mathematics sustainability through collaborative games and events towards Math life-long learning.”

2. As agreed during the Planning Conference by the School Math Coordinators and advisers last November 13, 2017 at Tubod Central Elementary School, the following committees are created for the Division Mathematics Olympics – Secondary.

A. VENUE & HALL PREPARATION: Eddie Borongan and Math teachers of Geronima Cabrera NHS

B. SECRETARIAT/ REGISTRATION: Alice Sarip, Melitonia Pliego, Rene Demore of Geronima Cabrera NHS, Maita Bauya, Teofila Quibranza NHS

C. TEAM QUIZ (five contestants per school– one per grade level including SHS)
   Advisers: Jocelyn Manosa, Arsenio Quibranza NHS; Dante Alboroto, Magsaysay NHS
   Quizmaster: John Anthony G. Lomosad, LNNCHS
   Time Keeper: Lee LLanes, LNNCHS
   Scorers: Ailene G. Honculada, Bansarvil NHS
            Jennifer Ente, Arsenio Quibranza NHS
   Proctors: Mary Ann Famenia, Matungao NHS
            Delmie O. Sotis, Marcela Mabanta NHS
            Cherry Lynne Magsayo, Diosdado Yap NHS
   Judges: Rico Viernes, Kapatahan NHS (Chairman)
            Vilma Hambre, Marcela Mabanta NHS
            Teresita Momo, Panoloon NHS
   Documenters: Samsidah Gubaten, Pantar NHS
2017 DIVISION MATHEMATICS OLYMPICS

Entry Form

This is to inform the 2017 Division Mathematics Olympics Committee of the following event/contest that my school will participate on December 12, 2017:

<table>
<thead>
<tr>
<th>Event/Contest</th>
<th>Number of Participants</th>
<th>Name of Coach</th>
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<tbody>
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Prepared by:

__________________________
School Math Coordinator

Approved:

__________________________
School Principal

NOTE: DEADLINE OF SUBMISSION OF THIS FORM WILL BE ON NOVEMBER 27, 2017.
Email to lorraine.olavides@deped.gov.ph