



Republic of the Philippines
Department of Education
CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY



September 26, 2024

DIVISION MEMORANDUM

No. **540-2024**


2024 District Science and Math Festival

To: All Chief Education Supervisors
Education Program Supervisors
Public Schools District Supervisors
Public and Private Secondary School Heads
Public and Private Elementary School Heads
Teachers, SDO Personnel
Others Concerned

1. In line with **DM 501 s 2024 (2024 Division Mathematics Festival)** and **DM 523 s 2024 (2024 Division Science Festival)**, district level will be conducted on October 19, 2024 to qualify participants to the different contested events (See Enclosures for the venue per district). Relative to this, the schedule of Division Science Quiz Bee and Research Innovation and Scientific Exploration is rescheduled on November 9, 2024.
2. Coaches and TWGs shall be entitled to one (1) day service credit as per DO 13, s. 2024 and CSC DBM Joint Circular No. 2, s. 2004.
3. For further details, please contact the focal person in your respective district or the CID through Virginia C. Alindayo (09993293403) or Francisco C. Copsiyan (09192956716).
4. Immediate and wide dissemination of this Memorandum is desired.

SORAYA T. FACULO PhD, CESO VI
Assistant Schools Division Superintendent
OIC- Office of the Schools Division Superintendent

For the Office of the Schools Division Superintendent


NIEVES D. EBANIO
Administrative Officer V

CID/jcs/vca





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Enclosure 1. Venue of District Science and Math Festival

Mathematics			
District	Date	Venue	in-charge
1 - 10	Oct. 19	To be arranged	PSDS per District
Contest Activities			
1. Quiz BEE - Oral Competition			
2. Damath Competition - Elem. and High School			
Note:			
1. Mathematics Investigation and Mathematics and Computational Science will be conducted in			
the division level			
Please see Attached Guidelines for the 2024 Division Math Activities			

Science			
District	Date	Venue	in-charge
1 - 10	Oct. 19	To be arranged	PSDS per District
Contest Activities			
1. Quiz Bee - Oral Competition			
2. SciDama Competition - Elem. and High School			
3. Research Innovation and Scientific Exploration			
Please see DM 523 s 2024 for the contest guidelines			
<ul style="list-style-type: none"> • For the Quiz Bee for SHS STEM, First Placer from every school offering STEM will advance to the Division Level. 			

Division Technical Working Group			
Activity	Overall Chairman/Co-Chair	Members	No of TWG
SciDama - Elem	Chadrey Madume	Coaches/Science Coordinators/BCAST Officers	21
SciDama - Junior High School	Darwin Paas/Pepito Dacaimat	Coaches/Science Coordinators/BCAST Officers	21
Quiz Bee-	Jeany Dupo- JHS Antonio Pednga- Elem Marissa Wayan-SHS	Coaches/Science Coordinators/BCAST Officers	13 13 7
Tuklas: A Research Project Fair	Marissa Bugatti/Marissa Wayan	Brenda Contada, Salome C. Fangkingan, Jofelyn Nicolas Jeany Dupo, Edit L. Laop Edgar Soriano, *BCAST officers	15
Research Innovation and Scientific Exploration	Brenda Contada Marissa Laplana	Salome C. Fangkingan Jofelyn Nicolas Jeany Dupo Marissa Wayan Marilyn Bugatti	7

2024 DIVISION MATH CONTEST ACTIVITIES

Theme: "Enhancing Learners Numeracy Skills Through Recreational Activities"

1. QUIZ BEE (Public and private schools)

ORAL competition

Composition – Team (2 members)

Elementary level – participants are top TWO (2) winners per level/grade in the District Level Competition (one team per school)

- a. Grade 3
- b. Grade 4
- c. Grade 5
- d. Grade 6

In charge _____

High School Level

Junior High– The number of participants per CLUSTER (School/teacher in-Charge)

- a. BCNHS top 4
- b. Previous annexes of BCNHS 3
- c. PCNHS 3
- d. Previous annexes of PCNHS 3
- e. BCNSciHS 3
- f. Private schools will join to the nearest public schools

In charge _____

Senior High- (Competition will be conducted in the division level only)

One team per school regardless of track and grade level (Open to private and public Senior High Schools)

In charge _____

(Elem. and High school - Junior and senior)

Type of questions	Easy (5)	Average (5)	Difficult (5)
Points	2	3	5
Time limit	15 sec.	30 sec.	60 sec.

Coverage – Grades 3 to grade 10 (First to fourth quarter)

- Senior High (General math)

IN CASE OF TIE:

To break the tie, 3 questions will be answered if the result remain the same do or die follows.

2. DAMATH COMPETITION

Elementary – The participants are the top two(2) winners per grade in the District Level Competition

Categories - Elementary (one participant per school)

- Grade 3 Whole Number Damath
- Grade 4 Whole Number Damath
- Grade 5 Positive Fraction Damath
- Grade 6 Positive Fraction Damath

In charge : GEORGE VIDAL

Secondary - The number of participants per level shall be as follows:

- a. BCNHS top 4
- b. Previous annexes of BCNHS 3
- c. PCNHS 3
- d. Previous annexes of PCNHS 3
- e. BCNSciHS 3
- f. Private schools will join to the nearest public schools

- Grade seven Integer Damath
- Grade Eight Rational Damath
- Grade Nine Radical Damath
- Grade ten Polynomial Damath

Note: Calculator is allowed

In charge: RUSTY TARNATE

Procedure for the Damath competition

- a. Two brackets per grade level
- b. Top two per bracket to compete for the championship

3. MATHEMATICS INVESTIGATION PROJECT (High school level only – including senior high)

- No cluster elimination on district level
- Competition will be conducted in the division level

RESEARCH BASED – Senior HS only (Open to all schools-Separate participant per category)

- a- Individual
- b-Team (2-3 members)

Note: Submit entries in two copies (Soft bond and A4 size) at the DO on or before Oct. 22, 2024 (Tuesday)

PROBLEM BASED – Junior HS only

- a-Individual
- b-Team (2 - 3 members)

Participants (Separate per category)

- a. BCNHS - 2 entries
- b. BCNSciHS - 2 entries
- c. PCNHS - 2 entries
- d. other schools – 1 entry each

4. Mathematics and Computational Science – In charge Ma'am Editha Laop

DIVISION LEVEL CONTEST

- a. Venue – Lucban ES
- b. Date : Oct. 26, 2024 Time: 8:00A.M. onwards

Note: 1.All qualified participants per district for the 2024 Division Math Festival must submit official list on or before October 23, 2024.

2. Any issue/concerns will be discussed before the competition.

- a. Integer Damath – running score, scores are integers

GUIDELINES

How to play Damath

1. The system pairing assigns which player will have the first move.
2. The two players alternately take turns in moving a chip (pass is not allowed).
3. Each player is allotted one minute per move including the computation and recording.
4. In taking an opponent's chip, the "taker chip" jumps over the "taken chip" and uses any of the four operation symbols (+, -, x, and \div) where the "taker chip" lands.
5. A chip is declared "**dama**" if it stops 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 "**dama**" if it stops in any of the following squares: (0,7), (2,7), (4,7), (6,7).
6. A "dama" chip can slide diagonally forward or backward in any unoccupied square as long as no opponent's chip blocks its path.
 - a. It could take an ordinary chip or chips whereby its corresponding sum, difference, product or quotient is doubled.
 - b. Similarly, if an ordinary chip takes an opponent's "dama" chip, its score is also doubled.
 - c. Correspondingly, if a "dama" chip takes an opponent's "dama" chip, then its score is quadrupled.
7. The game ends if:
 - a. the 20 minutes lapsed,
 - b. the moves are repetitive,
 - c. a player has no more chip to move;
 - d. opponent's chip is cornered, and
 - e. a player resigned.
8. The remaining chip or chips of the players are to be added to their respective scores. If the remaining chip is a "dama", then its score is also doubled.
9. The player with greater accumulated total score wins the game.

Baguio City Division Damath Contest Mechanics

1. For the **elimination round**, there will be 2 brackets having 9 players each, if complete. Top 2 in each bracket will be qualified for the final round.
2. For the **final round**, with a total of 4 players.
3. For the tie-break, follow the sequence below:
 - a. **win over the other or direct encounter** (applicable only for two tied players)
 - b. **Sonneborn-Berger (SB)** – sum of the scores of defeated opponents (if drawn, add half the score)
 - c. **15-minute rematch**

Baguio City Division Damath Ground Rules

1. Offenses or violations are as follow:
 - a. Wrong recording – any recording that affects the score
 - b. Wrong computation
 - c. Extending one minute turn
NOTE: Warning does not apply in the event that at the end part of the game,
if a player complains his/her opponent who obviously and intentionally extended a one minute turn because when he/she moves, he/she will lose the game. The arbiter will force the opponent to move.
 - d. Moving other chip instead of a chip that has to be really moved.
 - e. Using of cellphones while playing – texting, watching, using Facebook, etc. **But cellphones can be used as timers or stopwatches only.**
2. **First offense/violation – warning**
Second offense/violation – lose the game
3. For the recording and computation, follow the guide below.
 - a. Integer Damath – running score, scores are integers

- b. Rational Damath – NOT running score, scores are fractions/rational numbers (may not be in simplest form)
 - c. Radical Damath – NOT running score, scores are expressed in two decimal places (rounded off)
 - d. Polynomial Damath – NOT running score, scores are expressed in two decimal places (rounded off), computation of scores can be done when the game ended
4. Calculator is allowed in all grade levels. A player can compute even if it is not his/her turn provided that he does not distract his/her opponent.
 5. There is **“no saved by the bell”**. If a player is on process of taking chip/s, and the arbiter says “time”, the players has to continue his/her move and record the score.
 6. If a player is about to take a chip but has no more time (20 minutes has lapsed), he/she will not move the chip anymore.

NOTE: There will be a short orientation on the ground rules before the start of the tournament.