



Cordillera Administrative Region

SCHOOLS DIVISION OFFICE OF ABRA

Bangued, Abra



OCT 02 2019

DEPED-ABRA Time:

DIVISION MEMORANDUM No._ _ 3 20 , s. 2019

To :

Public Schools District Supervisors

Elementary School Heads Secondary School Heads

From

GLORIA A. BUYA-AO

Schools Division Superintendent

Subject:

2019 DIVISION SCIENCE & MATHEMATICS FESTIVAL

Date

October 1, 2019

- The Department of Education Schools Division Office of Abra through the Curriculum Implementation Division (CID) in coordination with the District and Secondary Schools Science and Mathematics Coordinators announces the conduct of the 2019 Division Science and Mathematics Festival on October 9-10, 2019 at Marc Ysrael B. Bernos Memonrial National High Schoo, Mudeng Lapaz, Abra.
- 2. This activity aims to promote Science and Technology, Engineering and Mathematics consciousness among the youth and identify students that will represent the province in the Regional Science and Mathematics Festival. The theme of the festival is "Science and Mathematics for the People: Innovation for Collective Prosperity".

3. The following are the contested event during the festival:

Date	Event
Science	a. Search for the Most Outstanding Science Teacher
	b. On-the-spot Science Competition
	c. Science Investigatory Project (SIP)
	d. Robotics
	e. Innovation
	f. Science Quiz
Mathematics	g. Mathematics Investigation - Research Based
	h. On-the-spot Mathematics Investigation
	i. Mathematics Quiz
	j. Damath

- 4. There will be NO REGISTRATION FEE. Foods and snacks of the TWG shall be charged against the Division MOOE while the travel expenses of the participants and TWG shall be charged against school MOOE and /or other sources, subject to the usual accounting and auditing rules and regulations.
- 5. Guidelines, mechanics and members of Technical Working Group are stated in the enclosure on this memorandum.
- 6. Immediate and wide dissemination of this memorandum is advised.

Guidelines and Mechanics for the Different Competitions

Science Investigatory Project (SIP)/ Robotics/ Innovation

The science research competition is open to ALL secondary schools both Junior HS and SHS HS regardless of school type. Below is the classifications and categories.

1 C 2 and 2		Life Science	
Physical Scien	eam (2 or 3 members)	Individual	Team (2 o3 members)
Individual Le	an 2 or 5	Ini	novation
1.000	am (2 or 3 members)	Individual	Team (2 o3 members)
Individual			

The science research competition for the elementary level will be in two categories only; the individual and team categories but no longer classified as physical science or life science.

Top five (5) winning projects in the school level will only be competed in the division level in every category. ntries will be on October 7, 2019. The cover page of the write-up should follow the color coding below:

4	Submission of entries will be on October 7, 2019. The cove	r page of the write-up should remove a
4.	Category/ Classification	Color
		Green
Elementary Research Life Science Research		Blue
	Physical Science Research	Red
Robotics		White
		Yellow
	Innovation	

B. Mathematics Investigation (MI)

The mathematics investigation is for the secondary level only.

The categories and classification of the mathematics investigation is as follows:

i	2. The categories and classification of the mathematics haves Research-based MI		Problem-	based MI
-	Individual	Team Category (2-3	Individual (JHS or SHS maximum of 2 entries)	Team Category (2-3 members from JHS or SHS maximum of 2 entries)

- Submission of Research-Based Mathematics Investigation (MI) entries will be on October 7, 2019.
- Only the first place per classification and category in the Division Level will participate in the 2019 Regional Level competition.

Science and Mathematics Quiz

- The division Science and Mathematics Quiz shall be conducted in a Quiz Show Format wherein all contestants are seated facing the Quiz Master for a given period of time.
- Participants to these events are the following:

D. C. C. water		
Events	Participants	
Science Quiz	First Place winners of Grade 3, 4, 5 and 6 in the (27) Municipal Districts and	
Science Quiz	Grade 7,8,9, 10 and Grade 11 or 12 of all Secondary Schools including IS and	
	Ext. Schools	
Math Quiz	First Place winners of Grade 3, 4, 5 and 6 in the (27) Municipal Districts and Grade 7,8,9, 10 and Grade 11 or 12 of all Secondary Schools including IS and	
	Ext. Schools	

All questions will be stated in English. The type of question, time allotment, scoring are described below:

No. of Questions	Time limit	Score	Type of Question
5- 15-second questions	15 seconds	2 points	Multiple choice
•			(NO choices for Math)
5- 30-second questions	30 seconds	3 points	Multiple choice
o o o occord questions			(NO choices for Math)
5 – 60-second questions	60 seconds	5 points	No choices
3 - Clincher	60 seconds	5 points	No choices
Do or die	No time limit	First to get the correct	No choices
		answer wins	

The quiz master will read the question twice. After the second reading, the quiz master will say "GO" and the time to start writing their answers will begin. The designated timer will say "STOP" after the given time limit and the contestants will raise their answers for checking and recording by the proctors and board of judges. If the proctors cannot determine the validity of the answer, the board of judges will decide on the matter. The decision of the board of judges is FINAL.

D. DAMATH

I I wel	
Grade Level	Damath
Grade 3 or 4	Vinden
Grade 5 or 6	Whole Number
	Positivo E di
Grade 7	Positive Fraction
Grade 8	Integers
Grade 9	Signed Fraction
	D. II
Grade 10	Radical
	Polynomials
	Loryhollilais

1. One contestant and one coach per grade level.

There shall be ten (10) competing teams in the elementary level coming from the Mother Districts and ten (10) co

Cluster 1	Abra HS Main, Abra HS Calot & Sinalang Ext.
Cluster 2	WILDDWINDS, Western Abra MIIC D. 1. 1885
Cluster 3	
Cluster 4	San Quintin NHS, Suyo NHS, San Isidro NHS, Langiden NHS and Peñarubia IS Northern Abra NHS, Quidaoen NHS, Caganayan NHS, Cayapa NHS and Tineg NHS Tagodtod NHS, Pangtod NHS, Abas NHS, Bagy NHS, Maio & L.
Cluster 5	Tagodtod NHS, Pangtod NHS, Alex, NHS, Cayana NHS and Tineg NHS
Cluster 6	Tagodtod NHS, Pangtod NHS, Abas NHS, Baay NHS Main & Lacub Ext., and Mataragan NAS Pilar Rural HS, Dalit NHS, Bolbolo NHS, Lumaba IS and Tuquib IS Tiempo NHS, Luzong NHS, Luz
Cluster 7	Tiempo NHS, Luzong NHS, Lullous NHS, Lumaba IS and Tuquib IS
Cluster 8	Tiempo NHS, Luzong NHS, Lullono NHS, Dilong NHS and Supo NHS Manabo NHS, Cristing B, Governo DONG, Dilong NHS and Supo NHS
Cluster 9	Manabo NHS, Cristina B. Gonzales MNHS, Boliney NHS, Capitan NHSand Dugong NHS Gaddani NHS, Rosalio Eduarte NHS and An ana-ao IS
Cluster 10	Private Schools

3. Only the official contestant may raise a protest or clarification and it should be made before the next move will be done. The protest should be directed to the arbiter/timer who is responsible for settling all clarifications which may arise in the course of the competition. The assigned chairman of the board is responsible for settling protest that may arise in the

Rules of DAMATH

- Set the starting positions of the chips.
- The two (2) players alternately will take turns in moving a piece, PASS is NOT ALLOWED.
- Touch move shall be observed in the games. A player who touches a chip is required to move that chip unless it is illegal move.
- 4. After making a move, a player shall record his/ her move in the score sheet.
- 5. Only one score sheet will be used by the players in the game.
- 6. Each player is allowed one (1) minute to move, record, and score.
- A warning is given by the arbiter to a player if no move is made in a minute which will consequently force the player to move a chip.
- Continuous violation of rule #7 will be a ground for disqualification after three (3) warnings regardless of the score 8.
- 9. All moves should be in the forward direction except when taking a chip or the chip is "DAMA".
- 10. A chip is declared "DAMA" it reaches and stops in any of the following opponent's square: (1, 0), (3, 0), (5, 0), or (7, 0). Similarly, if an ordinary opponent's chip reaches any of the following squares: (0,7), (2,7), (4, 7), or (6, 7)
- 11. Once a chip is declared as a "DAMA", it could slide diagonally forward or backward in any vacant square and if it takes a chip, the score is doubled, similarly if a chip takes a "DAMA", the score is also doubled. If a "DAMA" takes a "DAMA", the score is quadrupled.
- 12. In taking chip/s, the following prevail: "Mayor Dama", "Mayor Dalawa", "Mayor Tatlo", etc.
- 13. "DAMA" chip should be encircled in the score sheet to identify the "DAMA".
- 14. Game duration is twenty (20) minutes and it should not exceed twenty (20) minutes.
- 15. The game also ends if: the moves are repetitive, a player has no more chips to move, a player has no more chips, or a player resigns. "Save by the bell" is not applicable in the end game. Continuation of the move shall be enforced when taking chip/s.
- 16. The remaining chip/s of a player is/ are added to his total score algebraically. If the remaining chip is a "DAMA", the value is doubled.
- 17. The player with the greater total score wins the game, except in the SCI-DAMA where the player with the lesser score
- 18. Only the player is allowed to raise questions during the game through the arbiter and questions should be settled immediately. No questions will be entertained after the games. Arbiter's decision is final.

Breaking the Tie (Round Robin System)

- Win over the other 1.
- 2. Sonneborn Berger System the sum of the scores of the opponents a player has defeated and half the scores of the players he has drawn with.
- 3. Progressive Scoring:
- 4. Progressive Score Cut remove the first round then do progressive scoring. In case there is still a tie, remove the second round and so on.

MEMBERS OF THE TECHNICAL WORKING GROUP (TWG)

	Secondary	Elementary	
EVENT	Grade 3	Grade 7	
Quiz - Science	Fernandina Lagundino	Maria Elena H. Bose	
Cure	Leonarda G. Turalba	Nina Jaycel M. Pinera	
	Grade 4	Grade 8	
	Amelita B. Paculdar	Nida A. Sulian	
	Presila B. Tesoro	Wilfredo Gandeza	
	Grade 5	Grade 9	
	Silverio Carino	Corazon Luarca	
	Lailani P. Camello	Rosemarie B. Bigornia	
	Grade 6	Grade 10	
	Rolando Antonio	Evelyn Diaz	
	Cristina B. Padayaw	Randy S. Ardaniel	
	Grade 11/12		
	Jimmy Ann B. Guillermo		
	Renato Bernardez		
Quiz – Mathematics	ELEMENTARY	JUNIOR & SENIOR HIGH SCHOOL	
	Nestor Pacsa	Thelma Belleza	
	Alma Wagayen	Babyjohn A. Balaoag	
	Angeline Bumatay	Angeline Bumatay	
	Catalino Bisquera	Elleanor Turqueza	
	Elvie Tejero	Argie Ardaniel	
	Alfredo Lanas	Juliet Aquino	
Damath	Grade 7	Grade 3 &4	
	Rodelio Claor and coaches	Jomar Brub and coaches	
	Grade 8	Grade 5 & 6	
	Rey Ann Buenafe and coaches	Joel Tollas and coaches	
	Grade 9	Grade 10	
	Rommel Santua and coaches	Jovina Baga and coaches	
Math Investigation	Research-Based	Problem-Based	
	Ma. Teresa Balido	Marilou Vasquez	
Secretariate	Dominga Alcaide		
	Vilma Tumalip		
	Sherwin Zapatero		
	Silverio Quiday		