

Department of Education

Cordillera Administrative Region
Schools Division of Tabuk City

Office of the Schools Division Superintendent

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REGORDS UNIT

6/November/2023

Division Memorandum No. 440 s. 2023

DIVISION SCIENCE AND TECHNOLOGY FAIR

To: Public Schools District Supervisors
All Public and Private Secondary School Heads
All others Concerned

- 1. The Division Office through the Curriculum and Implementation Division shall conduct a Division Science and Technology Fair (DSTF) this November 18,2023 with the theme, "Siyensya, Teknolohiya, at Inobasyon: Kabalikat sa Matatag, Maginhawa at Panatag na Kinabukasan." The venue will be announced later.
- 2. This year's DSTF aims to empower the youth to cultivate innovation, and creativity amid the changing world, and showcase learners' competence in addressing community problems for sustainable development.
- 3. The DSTF will banner the following events and competitions:

A	Board Games- Elementary/ Sec	Damath						
	Sci-Dama	Grades 3- Whole						
	Grade 3-Water Patrol	Grades 4-Whole						
	Grade 4-Water Patrol							
	Grade 5-Power Patrol	Grade 5 - Fraction						
	Grade 6-Power Patrol	Grade 6- Fraction						
	Grade 7-Electro Scidama	Grade 7-Integer						
	Grade 8-Sci Notation	Grade 8-Rational						
	Grade 9-THI	Grade 9-Radical						
		Grade 10-Polynomial						
	Grade 10-Thermo							
В	Tuklas (Science)	2)						
	Life Science (Individual & Team	7)						
	Physical Science (Individual & Team)							
	Pobotics Invention Machine(RIM)							
	Mathematical and Computational Science							
C	AghambayaniJuan (Science)							
	Robotics							
D	Mathematical Investigation (M	ath)						

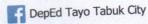






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Individual and Team

- 4. The schools shall submit 1 entry for each event before November 15, 2023, for Tuklas, AghambayaniJuan, and Mathematical Investigations.
- 5. The mechanics and criteria of the different contested activities and the Likha project proposal template shall follow the 2022 NSTF rules.
- 6. For Board Games, one entry per District for the elementary level, while open for the secondary level.
- 7. Enclosed with this memorandum are Enclosure 1, or the Boardgame rules, and Enclosure 2-List of TWG.
- 8. Participants shall be granted COCs/CTOs or Service Credits subject to existing DepEd and CSC rules and regulations.

9. Immediate and wide dissemination of this Memorandum is desired.

BENEDICTA B GAMATERO, PhD, CESO V
Schools Division Superintendent

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Office of the Schools Division Superintendent Enclosure 1

RULES of DAMATH/SCI-DAMA

- 1. Set the starting position of the chips.
- 2. The two players alternately will take turns moving a piece (Pass is not allowed).
- 3. Touch moves shall be observed in the games. A player who touches a chip is required to move that chip unless it is an 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 player in a game.
- 6. Each player is allowed one minute to move, record the move, and score.
- 7. A warning is given to the player by the arbiter if no move is made in one minute, and consequently, is forced to move a chip.
- 8. Continuous violation of rule #7 will mean disqualification (after 3 warnings) of the player even if he is leading in the score sheet.
- 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" if it reaches and stops in any of the following opponent's square:
 - (1,0) (3,0) (5,0) (7,0)

Similarly, if an ordinary opponent's chip reaches the following squares, it is declared as "dama".

- (0,7) (2,7) (4,7) (6,7)
- 11. Once a piece/chip is declared as a "dama", it could slide diagonally forward or backward in

any vacant square. If a "dama" takes a chip, the score is doubled; similarly, if a chip takes a "dama" the score is also doubled. If the "dama" takes a "dama", the score is quadrupled.

12. In taking chip/chips, the following shall prvail

"Mayor dama"

"Mayor dalawa"

"Mayor tatlo", etc.

- 13. "Dama" chip should be encircled in the score sheet to identify the "dama".
- 14. Games duration should not exceed twenty minutes (20 min.).
- 15. The game also ends if:
 - The moves are repetitive
 - · A player has no more chips to move
 - A player has no chips
 - A player resigns

"Save by the bell" is not applicable in the end game. Continuation of move shall be enforced when taking a chip/s.







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- 16. The remaining chip/s of a player is/are added to his total score algebraically.
- 17. If the remaining chip is a "dama", the value is doubled.
- 18. The player with a greater total score wins the game except in the sci-dama when the player with a lesser score wins.
- 19. Only players are allowed to raise questions during the game through the arbiter and questions should be settled immediately. No questions will be entertained after the game.
- 20. The arbiter's decision is final.

Starting Chips Position

Whole Number DaMaths

Fraction DaMaths

Integers Damath

Rational Damath

Radical Damath

$$-9\sqrt{2}$$
 $-\sqrt{8}$ $4\sqrt{18}$ $16\sqrt{32}$ $-49\sqrt{8}$ $-25\sqrt{18}$ $36\sqrt{32}$ $64\sqrt{2}$ $-121\sqrt{18}$ $-81\sqrt{32}$ $100\sqrt{2}$ $144\sqrt{8}$

Polynomials

$$-3x^{2}y$$
 $-xy^{2}$ $6x$ $10y$ $-21xy^{2}$ $-15x$ $28y$ $36x^{2}y$ $-55x$ $-45y$ $66x^{2}y$ $78xy^{2}$







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Water Patrol Sci-dama (In Cu.m)

90 65 10 45 5 30 105 70 110 85 50 25

Power Patrol Sci-dama (In Kwh)

95 70 15 50 10 35 110 75 115 90 55 30

Electro Sci-dama

P10 7kwh P2 5kwh
1kwh P4 11kwh P8
P12 9kwh P6 3kwh

Dama Sci-Notation

THI Sci-dama (Temperature Humidity Index)

25% 70 °F 30% 75 °F 80 °F 35% 85 °F 40% 45% 120 °F 50% 110 °F

TEMPERATURE HUMIDITY INDEX TABLE

%	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
٥F	78	79	80	81	82	83	84	85	86	87	88	89	90	91	93	95	97	99	102	105	108

Thermo Sci-dama

29 g 17 °C 3 g 11 °C 2 °C 7 g 31 °C 19g 37 g 23 °C 13 g 5 °C

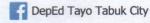






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Ground Rules

- 1. The first player is determined by a table of pairings.
- 2. A player forfeits his/her game after he/she commits any of the following violations and fails to observe the third warning by any of the tournament officials
- 2.1 Wrong position of the chips.
- 2.2 Annoying/causing disturbing acts such as tapping the chair, or table or whistling.
- 2.3 Eating or drinking while the game is in progress.
- 2.4 Exceeding the 1-minute move
- 3. Players, coaches, and spectators are not allowed to make post-game analyses or play against other players/coaches/spectators and discuss finished or unfinished games within
- a 10-meter radius of the playing area. Coaches are only allowed within the playing area. Coaches are only allowed within the playing area if requested by the arbiter/tournament manager.
- 4. In taking a chip, the pass is not allowed. If a player has an option, then he may use 1 minute but has to take the chip/chips anyway. If a player has no option, then he has to take the chip/s right away without consuming the 1-minute time.

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- 5. No save by the bell in the last minute of the game. Continuation of moves will be observed when a chip or chips is to be taken.
- 6. A player records his/her own move, computation of score is running score for all levels except Grade 10 Damath.
- 7. In moving a chip, touch move should strictly be observed except when the move contradicts the general guidelines on the Damath/Sci-Dama Games.
- 8. Defaulting time is 5 (five) minutes.
- 9. No complaints will be entertained after the player has signed the score sheets.
- 10. Tie-breaking rules:
- 10.1 win over the other (for a simple tie)
- 10.2 SB System

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.
- 10.3. 10-minute knockout game.







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Enclosure 2. List of Technical Working Group

A. Board Games

Grade Level	Arbiter	Recorder	Timer					
Science								
Grade 3	Leonard Egalan	Armiline Balacang	Audee Penalber					
Grade 4								
Grade 5	Reynaldo Tumapang	Amado B. Danao	Celso Paguel					
Grade 6								
Grade 7	Evangeline Ruth L. Boog	Rowena Wassig	Raqueline Baguiwan					
Grade 8	Gay Rose Canao	Noreen Andres	Glory Pangkew					
Grade 9	Jovy P. Gunnawa	Angeline Apaling	Ever Joy Ysmael					
Grade 10	Lorenzo Cosidon	Airene Fernandez	Randolf I. Cudal					
Overall Chair	man	Petronila G. Buslig						
Mathematics								
Grade 3	Mark Malamnao	Rey Abannag	Roland Ragma					
Grade 4								
Grade 5	Hener Abad	Robert Balneg	Roland Michael Aspirin					
Grade 6								
Grade 7	Sherwin Dusagan	Paul Dimalanta	Leo Dugui-is					
Grade 8	Ricardo Mukay	Reymar Galinggan	Mark Harrerson Bangngayor					
Grade 9	Aljay Gammod	Alfredo Payl Reyes	Redondo Romero					
Grade 10	Elizaldy Blaza	Solomon Naganag	Rafael Alcodia					
Overall Chair	man							







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