



Republic of the Philippines  
DEPARTMENT OF EDUCATION  
Region VII, Central Visayas  
**SCHOOLS DIVISION OF NEGROS ORIENTAL**  
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December 3, 2018

**DIVISION MEMORANDUM**

No. 849, s. 2018

**2019 DIVISION MATHEMATICS EXPO**

**To:** Assistant Schools Division Superintendents  
Division Chiefs  
Education Program Supervisors  
Public Schools District Supervisors/District In-Charge  
Elementary/Secondary School Heads  
Mathematics Coordinators (*Elementary and Secondary*)  
All Concerned

1. The Division of Negros Oriental through the Curriculum Implementation Division (CID) informs the field on the conduct of the 2019 Division Mathematics Expo.
2. The theme is “**Math for Life: Creating Problem Solvers and Critical Thinkers**”.
3. The activity aims to:
  - a. demonstrate understanding on the importance of Mathematics as a subject to develop learners’ critical thinking and problem solving skills.
  - b. sustain advocacy on Mathematics programs/projects/activities as part of the co-curricular activities in the school.
  - c. enhance the Mathematics competence among learners through friendly and healthy competition.
4. The contestants in the congressional level are the winners in the district level competitions. In like manner, the Division level contestants are winners from the congressional level.
5. The following are the schedule and venues in the District, Congressional and Division Level competitions.

<i>Contest Level</i>	<i>Host District/Venue</i>	<i>Date</i>
District Level	Any School in the District (as approved by the PSDS)	Anytime within the 1 <sup>st</sup> to 2 <sup>nd</sup> week of December 2018

04 DEC 2018



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Congressional District 1	Ayungon 1 District	January 24, 2019
Congressional District 3	Bacong District	January 25, 2019
Congressional District 2	NOHS	January 26, 2019
<b><i>Division Level</i></b>	<b><i>Valencia District/Valencia National High School</i></b>	<b><i>February 8, 2019</i></b>

6. Interested participants from the private schools are requested to coordinate with the District Supervisors through the District Mathematics Coordinators.
7. The coaches are reminded to secure duly signed permits/consents from parents regarding their children's participation of the said activity. It is also advised that the attached contest package guidelines shall strictly be followed.
8. The participants in the division level include all PSDSs/DICs, coaches, contestants, judges and working committees.
9. Medals and certificates of Recognition shall be awarded to the winning contestants and coaches/trainers.
10. Travel and other related expenses in the school, district, congressional and division level contests are chargeable against school MOOE while snacks, lunch and other related expenses incurred by the working committee, judges and visitors are chargeable to division MTAP funds subject to the usual accounting rules and regulations.
11. This serves as an **Authority to Travel**.
12. Immediate and wide dissemination of this Memorandum is desired.

**WILFREDA D. BONGALOS, Ph.D. CESO V**  
Schools Division Superintendent

12/7/18

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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>TESSELLATION</b>	
<b>YEAR LEVEL</b>	<b>SECONDARY (ANY GRADE LEVEL) (7 or 8 or 9 or 10)</b>	
<b>NO. OF PARTICIPANTS</b>	<b>1 PER CONGRESSIONAL DISTRICT</b>	
<b>TIME ALLOTMENT</b>	<b>3 HOURS</b>	
<b>DESCRIPTION</b>	<b>Refer to Division Memo No. 14 s. 2016</b>	
<b>CRITERIA</b>	<b>CRITERIA</b>	<b>POINTS</b>
	<ul style="list-style-type: none"> <li>• Complexity of the pattern</li> </ul>	25
	<ul style="list-style-type: none"> <li>• Originality</li> </ul>	25
	<ul style="list-style-type: none"> <li>• Precision</li> </ul>	25
	<ul style="list-style-type: none"> <li>• Attractiveness</li> </ul>	25
	<b>TOTAL</b>	<b>100</b>
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>1. The contest is open to Secondary School students (Any grade level) (One contestant per district)</li> <li>2. Each contestant will provide 2" x 2" square polygon which he/she can create a cut and slide pattern to be tessellated on a 1/8 sheet of an illustration board.</li> <li>3. Each contestant will bring the following materials: glue or paste, a pair of scissors, plastic tape, pencil with eraser, pen marker and construction papers of his/her preference, in addition to the illustration board.</li> <li>4. Time allotment is 3 hours</li> </ol>	
<b>TOOLS NEEDED</b>	1/8 illustration board Glue or paste Pair of scissors Scatch tape Pencil/ eraser Pen marker Construction papers	
<b>OTHERS</b>	2" x 2" squares (2") to be provided by the committee	

**For clarifications:**

*Please contact:*

**Mrs Annabelle N. Banaybanay**

**-09161402832**



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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>MODULO ART</b>	
<b>YEAR LEVEL</b>	G1 -G3; G4 - G6; G7; G8; G9; G10	
<b>NO. OF PARTICIPANTS</b>	18	
<b>TIME ALLOTMENT</b>	3 hours	
<b>DESCRIPTION</b>	G1 - G3 -Square Grid Translated G4 - G6 -Square Grid -Reflected G7 - Square Grid -Reflected G8 - Square Grid -Rotated G9- Kaleidoscopic -Reflected G10 -Circular -Rotated	
<b>CRITERIA</b>	<b>CRITERIA</b>	<b>POINTS</b>
	• Accuracy of pattern & Design	25
	• Creativity	25
	• Color Combination	25
	• Visual Impact/ Neatness	25
	<b>TOTAL</b>	<b>100</b>
<b>CONTEST MECHANICS</b>	<p>The contest will last for 3 hours. Contestant are free to choose his/her design and will bring his/her own materials. Official patterns will be provided by the core group.</p> <p>Certificates of contestants and coaches and medals will be provided by the core group so with the judges.</p> <p>Only the first place in the congressional level will qualify in the Division level.</p> <p>For G1 - G3 -Square Grid Translated -Anyone from G1 to G3          G4 - G6 -Square Grid -Reflected -Anyone from G1 to G3          G7 - Square Grid -Reflected -One contestant from G7          G8 - Square Grid -Rotated -One contestant from G8          G9- Kaleidoscopic -Reflected -One contestant from G9          G10 -Circular -Rotated -One contestant from G10</p>	
<b>TOOLS NEEDED</b>	Modulo Patterns -Square Grid Kaleidoscopic, Circular	
<b>OTHERS</b>	Certificates for the contestants and coaches, medals	

**For clarifications:**

**Please contact:**

*Mr. Calvin S. Ije*



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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>MATH WIZZARD LOOK ALIKE</b>	
<b>YEAR LEVEL</b>		
<b>NO. OF PARTICIPANTS</b>	1 per district	
<b>TIME ALLOTMENT</b>	1 hour	
<b>DESCRIPTION</b>	Semi-pageant	
<b>CRITERIA</b>	<b>CRITERIA</b>	<b>POINTS</b>
	• Physical Appearance	25
	• Delivery	50
	• Showmanship	25
	<b>TOTAL</b>	<b>100</b>
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>1. Reading of guidelines/mechanics, criteria</li> <li>2. Contest will follow               <ol style="list-style-type: none"> <li>a) The event administrators and their secretaries, technical committees and judges should be in the venue 60 minutes ahead of the event schedule.</li> <li>h) Tools, equipment and others needed for the venue will be made ready before the event schedule.</li> </ol> </li> <li>3. All participants should be at the designated venue 30 minutes before the event starts.</li> <li>4. The participants will draw lots before the contest proper. The identification of district number.</li> <li>5. Briefing of participants will be done 15 minutes before the scheduled time.</li> <li>6. The event secretary will give the signal for the event to begin.</li> <li>7. Only the event administrators, secretaries, judges, officials, photographers and participants are allowed in the venue.</li> <li>8. The decision of the judges is final.</li> </ol>	
<b>TOOLS NEEDED</b>	Sound system and Stage Decoration	
<b>OTHERS</b>	Tabulation sheets, certificates, sash/trophies, token and snacks	



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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>TOWER OF HANOI</b>	
<b>YEAR LEVEL</b>	Elementary (Grade 5 or 6) /Secondary (Any Level)	
<b>NO. OF PARTICIPANTS</b>	12 (6 elem, 6 HS)	
<b>TIME ALLOTMENT</b>	Flexible	
<b>DESCRIPTION</b>	It consists of 3 rods and a number of disks of different sizes which can slide into any rod. The puzzle starts with the disks neatly stocked in order of size on one rod, the smallest on the top, thus making a conical shape.	
<b>CRITERIA</b>	<b>CRITERIA</b>	<b>POINTS</b>
	•	
	•	
	•	
	•	
	<b>TOTAL</b>	
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>1. The contest is open to all interested Grade 7 - Grade 10 for the secondary and Grades 5 or 6 for the Elementary (2 contestants per congressional district), 7 disks for secondary, 5 disks for elementary.</li> </ol> <p>Rules of the Game</p> <ol style="list-style-type: none"> <li>a) Move 1 disks at a time</li> <li>b) Big disk shouldn't be placed on top of the small disk</li> <li>c) For very number of disk, there is a corresponding number of move.</li> <li>d) The game will be composed of 3 rounds              1<sup>st</sup> round –use both hands in transferring the disks              2<sup>nd</sup> round –use right hand in transferring the disks              3<sup>rd</sup> round – use left hand in transferring the disks</li> <li>e) If the player will make wrong move, he/she will start again.</li> <li>f) Contestant should release the disks before moving the next rod.</li> <li>g) Contestant will be warned twice if he/she is not following the rules</li> <li>h) The player with the shortest time to finish wins the game in very round.</li> <li>i) The contestant with the shortest average time for 3 rounds wins the game.</li> </ol> <ol style="list-style-type: none"> <li>2. The 6 medals (2 golds, 2 silvers, 2 bronze) will be provided by the core group</li> <li>3. Certificates for the coaches will be provided by the core group.</li> </ol>	



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<b>TOOLS NEEDED</b>	6 Tower of Hanoi Timer Bell Records Sheet Manila Papers
<b>OTHERS</b>	Tables and Chairs

***For clarifications:***

*Please contact:*

*Mrs. Claudeth S. Mercado*



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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>EXHIBIT OF IMs</b>	
<b>YEAR LEVEL</b>	Mathematics Teacher	
<b>NO. OF PARTICIPANTS</b>	1 per district	
<b>TIME ALLOTMENT</b>		
<b>DESCRIPTION</b>		
<b>CRITERIA</b>	<b><i>CRITERIA</i></b>	<b><i>POINTS</i></b>
	• Originality and Uniqueness	35
	• Creativity	25
	• Coherence to the Mathematics Curriculum	25
	• Overall neatness of presentation	15
	<b><i>TOTAL</i></b>	<b><i>100</i></b>
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>1. All districts of the Division of Negros Oriental are required to participate.</li> <li>2. The event administrators, secretaries, technical committee and judges should be in the venue sixty (60) minutes ahead of the event schedule.</li> <li>3. Event materials, supplies, tools, equipment &amp; other things needed for the venue will be made ready by the event administrator sixty (60) minutes before the event schedule.</li> <li>4. All participants should be at the designated venue thirty (30) minutes before the event starts; late participants without valid reason shall be disqualified.</li> <li>5. The participants should coordinate the committee regarding their respective places and set-up their materials in their assigned places. Setting of IMs should be done this time.</li> <li>6. No software IMs allowed.</li> <li>7. Prepare contest piece for elementary and 1 for secondary</li> <li>8. The decision of the judges is final           <ul style="list-style-type: none"> <li>• The appropriateness of the instructional materials be judged from the perspective of the students/learners rather than from the teaches' perspectives.</li> <li>• It should be relevant to the today's world</li> </ul> </li> </ol>	
<b>TOOLS NEEDED</b>	Tables	
<b>OTHERS</b>		

**For clarifications:**

*Please contact:*

*Mr. Rolando B. Abrasado*





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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>MATH SAYAW</b>	
<b>YEAR LEVEL</b>	Elementary/Secondary	
<b>NO. OF PARTICIPANTS</b>	10	
<b>TIME ALLOTMENT</b>	3 to 5 Minutes	
<b>DESCRIPTION</b>	<p>Mathsayaw is an innovative technique of expressing mathematical symbols through dance steps. It is an expression of one's God-given creativity and talent, incorporating Mathematics and the art of dancing at the same time. Through a combination of precise hand and body movements, mathematical symbols and expressions are clearly conveyed and catered to its audience.</p> <p>It is an artistic way of conveying the fundamentals of Math like the Mathematic symbols which are interpreted through the precise bodily movements with the use of different parts of the body. Truly, Mathsayaw is a unique way of catering to the multi-intelligences of the learners.</p>	
	<b>CRITERIA</b>	<b>POINTS</b>
	• Mathematical Appeal	35
	• Choreography	25
	• Synchronization	25
	• Costume & over-all impact	15
	<b>TOTAL</b>	<b>100</b>
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>1) Participants of 10 members should be in the venue 30 minutes before the contest begins. Late participants without valid reason shall be disqualified.</li> <li>2) Judges will be determined by the core group.</li> <li>3) Participants are given 3 to 5 minutes to perform. A point will be deducted for every exceeding minute.</li> <li>4) They will create a series of dance steps using symbols in Mathematics.</li> <li>5) These mathematical symbols are given life through bodily movements and freely integrated with music as dance steps.</li> <li>6) The interpretation of the mathematical symbols is strictly using the body parts (hands, feet, legs, arms, head)</li> <li>7) Awards and certificates will be provided by the core group.</li> <li>8) No stunts and only hand props are allowed.</li> </ol>	
<b>TOOLS NEEDED</b>		
<b>OTHERS</b>		

**For clarifications: Please contact: Susan D. Guardario**



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<b>CONTEST</b>	<b>MATH JINGLE</b>	
<b>YEAR LEVEL</b>	Elementary/Secondary	
<b>NO. OF PARTICIPANTS</b>	10	
<b>TIME ALLOTMENT</b>	2 to 3 Minutes	
<b>DESCRIPTION</b>		
	<b><u>CRITERIA</u></b>	<b><u>POINTS</u></b>
	• Creativity/originality	30
	• Musicality	25
	• Relevance to the theme	15
	• Volume and blending of the voice	20
	• Audience Impact	10
	<b><i>TOTAL</i></b>	<b><i>100</i></b>
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>1. Only banafide students of the Division of Negros Oriental from Grade 7 - 10 for secondary and Grade 1 - 6 for the elementary are qualified to join the contest (One group per congressional district)</li> <li>2. Each group shall consist of 10 members.</li> <li>3. Presentation of singing will be done in acapella only and which shall be based on the theme "Math for Life: Creating Problem Solvers and Critical Thinkers".</li> <li>4. Performance will be given a time limit of 2 to 3 minutes excludng entrance and exit. A point shall be deducted for very exceeding minute.</li> <li>5. The lyrics should be in English. (Nat Taglish)</li> <li>6. Judges will be identified by the core group.</li> <li>7. Awards and certificates will be provided by the core group as well.</li> <li>8. Wear school uniform</li> </ol>	
<b>TOOLS NEEDED</b>		
<b>OTHERS</b>		

**For clarifications: Please contact: Susan D. Guardario**



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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>MATH QUIZ</b>	
<b>YEAR LEVEL</b>	5 or 6 (Elem); 9 or 10 (Secondary)	
<b>NO. OF PARTICIPANTS</b>	1 (elem); 1 (Secondary)	
<b>TIME ALLOTMENT</b>	60 mins. (Elem); 60 mins (Secondary)	
<b>DESCRIPTION</b>	Test item is in written form without choices	
	<b><i>CRITERIA</i></b>	<b><i>NO. OF ITEMS</i></b>
	• Easy	10
	• Average	5
	• Difficult	5
	<b><i>TOTAL</i></b>	<b><i>100</i></b>
<b>CONTEST MECHANICS</b>	<ul style="list-style-type: none"> <li>• The event administrators, proctors, timers should be in the venue 60 minutes ahead of the event schedule.</li> <li>• Event materials, supplies and other things needed for the venue will be made ready by the event administrators.</li> <li>• All contestants must be at the venue 30 minutes before the event starts. Late participants will be allowed to take the test however he/she must finish the test with the participants who started on time.</li> <li>• Proctors will give the signal for the test to begin</li> <li>• Once the test has been started, the coaches, teachers, delegates are no longer be allowed to talk the participants.</li> <li>• Certificates and medals should be prepared by the Division Cope group.</li> <li>• Only the event administrators and participants are allowed inside the testing area.</li> <li>• Registration form, stopwatch, checking of test papers should be prepared by the committee in-charge.</li> <li>• Winners will be selected/awardee as first, second and third.</li> </ul>	
<b>TOOLS NEEDED</b>	<ul style="list-style-type: none"> <li>• Stopwatch</li> <li>• venue</li> </ul>	
<b>OTHERS</b>	<ul style="list-style-type: none"> <li>• The test preparation and formulation will be prepared by the EPS in Mathematics.</li> </ul>	

**For clarifications: Please contact: Gemma B. Urciada -09276554725**



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**MATH EXPO 2019 CONTEST PACKAGE**

<b>CONTEST</b>	<b>DAMATH COMPETITION</b>
<b>YEAR LEVEL</b>	Elementary/Secondary
<b>NO. OF PARTICIPANTS</b>	
<b>TIME ALLOTMENT</b>	20 minutes
<b>DESCRIPTION</b>	
<b>CONTEST MECHANICS</b>	<ol style="list-style-type: none"> <li>a. The contest administrators should be in the venue 1 hour ahead of the event schedule.</li> <li>b. Participants should bring their own DAMATH board and chips.</li> <li>c. All participants should be at the designated venue thirty (30) minutes before the event starts. Late participants without valid reason shall be disqualified.</li> <li>d. The contest will be done in double elimination</li> <li>e. Briefing of participants will be done fifteen (15) minutes before the scheduled event.</li> <li>f. The timer will give the signal for the game to start. Once the game has started, coaches are no longer be allowed to talk to their contestants.</li> <li>g. Only the timer, arbiter and contest administrators are allowed in the venue.</li> <li>h. First and second places will qualify to the division level.</li> <li>i. All other guidelines should follow the DAMATH guidelines. (See attached Division Memorandum No. 361 s. 1999)</li> <li>j. Score sheets shall be prepared by the contest administrators.</li> <li>k. Certificates and medals to be prepared by the core group.</li> </ol>
<b>TOOLS NEEDED</b>	<ul style="list-style-type: none"> <li>• Damath Board and Chips</li> </ul>
<b>OTHERS</b>	<ul style="list-style-type: none"> <li>• BSP/GSP</li> </ul>