



Republic of the Philippines  
**Department of Education**  
 Region V  
**Schools Division of Sorsogon**

**DIVISION FESTIVAL OF TALENTS (DFOT)**

June 6-7, 2023

Casiguran Central School  
 Casiguran, Sorsogon

**STEMAZING COMPETITION**

(For Science and Mathematics)

1. The STEMazing competition involves STEM processes and practices exhibition that allows learner-participants to apply Science and Mathematics thinking skills to solve problems that have local, national and global impact. It allows them to become problem solvers by addressing social, scientific, and environmental issues through application of 21<sup>st</sup> century skills.
2. In this competition, participants shall be presenting oral and written proposed solution to a given scenario. The situation containing the problem shall be given on-site during the competition.
3. The category, mode of delivery, number of learner-participants and teacher-coach, and time allotment for STEMazing are indicated in the table below:

Category	Mode of Delivery	No. of Learner-Participant	No. of Teacher-Coach	Time Allotment
STEMazing-STEM Processes and Practices Exhibition	In-person	3	1	3 hours

4. Each municipality shall send 1 team, in addition to the team from STE/STEM school/s in their municipality. Participants from STE/STEM schools may come from either JHS-STE or SHS-STEM.
5. Attached are the Guidelines/ Event Rules and Mechanics for reference.



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CIP 5461/21/05/1163



# STEMAZING

(A Showcase of Science, Technological, and Mathematical Outputs)



<b>COMPONENT AREA</b>	<b>Science, Technology, and Mathematics</b>	
<b>KEY STAGE</b>	Key Stage Three (3): Grades 7 to 10; Key Stage Four (4): Grades 11 to 12	
<b>EVENT TITLE</b>	<b>STEM Processes and Practices Exhibition</b>	
<b>NO. OF PARTICIPANT/S</b>	A team composed of three (3) learner-participants per municipality.	
<b>TIME ALLOTMENT</b>	3 Hours (Creation of Outputs) 1 Minute Presentation, About 5 Minute Q and A	
<b>PERFORMANCE STANDARD</b>	Obtain scientific and technological information from varied sources about global issues that have impact on the country. Acquire scientific attitudes that will allow them to innovate and/or create products useful to the community or country. Process information to get relevant data for a problem at hand	
<b>21<sup>ST</sup> CENTURY SKILL/S</b>	Critical thinking, Communication skills, Creativity, Problem solving, Collaboration. Information literacy, Technology skills and digital literacy.	
<b>CREATIVE INDUSTRIES DOMAIN</b>	Creative Services	
<b>DESCRIPTION</b>	<p><b>STEM Processes and Practices Exhibition</b> is an NFOT event category of STEMAZING that allows learner-participants to apply science and mathematics thinking skills to solve problems that have local, national, and global impact. It allows them to become problem solvers by addressing social, scientific, and environmental issues through the application of 21st century skills.</p> <p>In this activity, participants will be presenting oral and written proposed solution to a given scenario.</p>	
<b>CRITERIA FOR PRESENTATION</b>	<b>Criteria</b>	
	<b>Percentage</b>	
	<b>Written Proposal</b>	
	Content/Organization/Thematic Relevance  (Based on scientific, technological, and other valid assumptions, Feasibility of the proposed solution)	50%
	Relevance of data used	20%
	<b>Oral Presentation</b>	
	Discussion/Arguments/Delivery  (Based on scientific, technological, and other valid assumptions, Feasibility of the proposed solution)	20%
	Relevance of data used	10%
<b>Total</b>	<b>100%</b>	

8. At the end of one minute, a buzzer shall signal that the time for presentation is up and the participants shall immediately stop presenting.
9. After the presentation, the assessors will ask questions for clarifications.

**RESOURCE REQUIREMENTS**

	<b>Participants</b>	<b>Host School / Venue</b>	<b>Host Division / Region</b>
<b>Attire</b> (for the NFOT)	NFOT T-shirt or Plain White Shirt (Finalized on the day before the competition)		
<b>Tools and Equipment</b>	<ul style="list-style-type: none"> <li>- Computer/ Laptop/</li> <li>- Notebook/ books and other printed resources, pocket Wi-Fi</li> </ul>	<ul style="list-style-type: none"> <li>- Timer</li> <li>- 2 multimedia projectors,</li> <li>- Printer</li> <li>- fast internet connection,</li> <li>- Sound System</li> <li>- Adequate electrical outlets, extension cords</li> </ul>	<ul style="list-style-type: none"> <li>- plagiarism checker</li> </ul>
<b>Physical Facilities</b>		<ul style="list-style-type: none"> <li>- Hall with stage, one holding room,</li> </ul>	
<b>Others</b>		<ul style="list-style-type: none"> <li>- 2 reams Bond paper A4</li> </ul>	<ul style="list-style-type: none"> <li>- Utility expenses</li> </ul>

## EVENT RULES AND MECHANICS (STEMazing)

### General Guidelines

1. The showcase shall consist of proposal writing and One-Minute Presentation. The teams shall develop and present their proposal to the panel of judges of their solution about a real-world problem/scenario of local or global importance. The situation containing the problem shall be given on-site during the showcase.
2. The participants are given 3 hours to conceptualize and prepare their written description of the proposed solution for the oral presentation. All entries submitted shall not bear any markings that identify their school/municipality. The participants may use the internet and other printed resources in developing their written solution, however, the teams are not allowed to confer with their coaches while the activity is on-going. Any form of communication between the participants and other parties (coach, parents, classmates, teachers, etc.) shall warrant automatic disqualification.
3. The proposed solution shall have the following components:
  - Title
  - Summary (100 – 200 Words)
  - Background and Problem (200 – 300 Words)  
*(Describe the challenges and how the proposed solution addresses the problem presented. Scientific Principles and Technology applicable to the resolution of the problem.)*
  - Beneficiaries
  - Proposed Solution to the Problem Presented (300 – 500 words)
  - Methods/Details of the proposed solution including the Cost - Analysis as applicable.
  - Include illustrations, figures, and charts.
  - References: May use any format as long as consistency is observed
4. The teams shall encode their proposals in word processing software, double-spaced using Bookman Old style font size eleven set in A4 size paper. Margins shall be 1 inch on all sides of the paper. Within the 3 hours, the teams shall submit their outputs (electronic copy) to the facilitators.
5. The proposals shall be subjected to a plagiarism check. Any proposals which exceed 15% similarity index (uncited) shall be deducted 2 points from the total score for every percent in excess. However, cited references shall be excluded from the 15% tolerance.
6. The submitted proposals shall be evaluated by the assessors before the oral presentation.
7. A timer board shall be shown to the public as well as to the participants.



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OFFICIAL LIST OF PARTICIPANTS TO THE DIVISION FESTIVAL OF TALENTS 2023

**STEMazing Competition**

School: \_\_\_\_\_

Municipality: \_\_\_\_\_

School Head: \_\_\_\_\_

	Name of Contestant and Coach	Grade Level/ Strand (if SHS)	Signature
1			
2			
3			
4		Coach	

Submitted/ Endorsed by:

\_\_\_\_\_  
 Signature Over Printed Name of School Head/  
 Public Schools District Supervisors

Date: \_\_\_\_\_

**Note:** There shall only have 1 entry with 3 contestants per STE/STEM school. The contestants may come from either JHS-STE or SHS-STEM.