

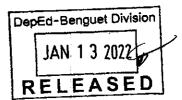
Republic of the Philippines
Department of Science and Technology
PHILIPPINE SCIENCE HIGH SCHOOL
Cordillera Administrative Region Campus
Irisan, Baguio City
P.O. Box 1129



06 January 2022

GLORIA B. BUYA-AO Schools Division Superintendent





#### **Dear Division Superintendent BUYA-AO:**

The Philippine Science High School Cordillera Administrative Region Campus will hold its Science, Technology, Engineering, Arts and Mathematics Week (STEAM Week) on January 31 to February 4, 2022. With emphasis on Fostering Science and Technology at the Grassroots, the STEAM Week aims to engage and inspire the people of the Cordilleras with the appreciation of science, innovation, engineering, and technology, and its role in improving and maintaining the culture, environment, and the economy of the region.

With this, may I humbly request for your support and endorsement of the following activities especially to the secondary schools in Benguet:

- 1. Online STEAM Talks
- 2. Events for Elementary
  - a. Science, Technology, Engineering and Mathematics Quiz Bee
  - b. Extemporaneous Speech Competition
  - c. Poster-Slogan
  - d. Jingle
  - e. STEM Promotional Videos
- 3. Events for High Schools
  - a. Oratorical Speaking Competition
  - b. Inventionsa Competition
  - c. STEM Promotional Video
  - d. Photography Competition

Should you have any queries regarding the event, please contact our STEM Promotions Lead Mr. Ariel S. Barrias at 09171420651 or asbarrias@carc.oshs.edu.ph.

Thank you so much for your continuous and generous support in the activities of our campus.

Yours in service.

CONRADO C. ROTOR, Jr., PhD PSHS-CARC Campus Director

Telephone No.: (074) 423-0126

Website: 1979/9, Carc. DShs. edu. ph



Republic of the Philippines

Bepartment of Education

Cordillera Administrative Region

Schools Division of Benguet

To: Elementary and Secondary School Heads Teachers

For information and widest dissemination.

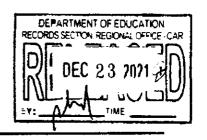
GLORIAB. BUYA-AO
Schools Division Superintendent





## Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet



December 21, 2021

ADVISORY 071.2021 JAN 1 3 2022
RELEASED

#### STEAM WEEK

(Science, Technology, Engineering, Arts and Mathematics Week)

- 1. The Philippine Science High School-Cordillera Administrative Region Campus will hold its STEAM Week on January 31 February 4, 2022. The aim of the STEAM Week is to bring Science and Technology to the people of the Cordillera.
- 2. Events for the elementary schools are the STEAM quiz bee, extemporaneous speaking, jingle making, poster-slogan making, STEM video making, and inventions competition and for the high school the events are oratorical speaking, inventions competition, STEM promotion video and Photography competition.
- 3. Competition guidelines and mechanics are attached for your perusal.
- 4. Should you have any questions or concerns, directly contact Mr. Ariel Barrias at 09171420651 or asbarrias@carc.pshs.edu.ph.
- 5. Immediate and widest dissemination of this advisory is directed.

ESTELA LEON-CARIÑO Edd, CESO III

Director IV/Regional Director

CLMD/ACM







## Department of Education

Wangal, La Trinidad, Benguet

PSHS-CARC STEAM Week Celebration Theme: KARSIyensya: Fostering S&T at the Grassroots Jan. 31 - Feb. 3, 2022

#### **Academic Competition**

#### Date & Time of Event

#### For Elementary School

Sulong Dunong: STEM Quiz Show (Grade 5)

Jan. 31, 2022, 1:00-3:00 pm

Deadline for the submission of

Feb. 2, 2022, 5:00 pm

- a. Poster-slogan Making Contest (for Grade 5)
- b. STEM Jingle-Competition (for Grade 5-6)
- c. STEM Promotional Video-Making Contest (Grade 1-6)

Extemporaneous Speaking Competition (Grade 5)

Feb. 3, 2022, 1:00-3:00 pm

#### For High School

STEAM 2021 Oratorical Speaking Competition (Grade 10-12) Feb. 3, 2022, 1:00-3:00 pm

Deadline for the submission of

Feb. 2, 2022, 5:00 pm

- a. Virtual Display Board for Science/Engineering Inventions (Grade 7 10)
- b. Photography Competition (Grade 10-12)
- c. STEM Promotional Video-Making Contest (Grade 7-12)

#### How to register?

Teacher-coaches shall register their student participants through this link:

#### bit.ly/STEAMWEEK2022

Teacher-coaches can also register through text by sending the name of their school, event/s, name of coach, pupil and student participant, and their contact details to 09171420651.

Deadline of Registration: January 24, 2021







## Department of Education

Cordillera Administrative Region Wangal, La Trinklad, Benguet

# EVENTS AND GUIDELINES FOR ELEMENTARY PARTICIPANTS SULONG-DUNONG: ONLINE QUIZ BEE (For GRADE 5: Jan. 31, 1:00-3:00pm)

#### **Guidelines and Mechanics:**

- 1. Each school is allowed to send one (1) Grade 5 student for the competition.
- 2. The coverage will include the ff. subjects (1<sup>st</sup>-2<sup>nd</sup> quarter topics in the Grade 5 DepEd curriculum): General Science, Math, Computer Technology, English, and current events.
- 3. The student representative must ensure a stable internet connection and a device (laptop, mobile device, etc.) with a camera. The competition will be held via Zoom.
- 4. A Zoom link will be provided to all registered participants five (5) days before the start of the event. Participants must log-in 15 minutes before the start of the program. The competition will also be recorded.
- 5. The participant must be alone in a room with a camera on. A 360-degree inspection (before and random) will be conducted to avoid coaching from non-participants.
- 6. The participants must always be seen by the camera, showing their upper body.
- 7. The camera must be turned on at all times. When the participant's camera stopped, regardless of any situation such as but not limited to unstable connection, technical problem, etc., his/her answer to the item at the time of camera interruption will be considered INVALID.
  - \* The participant **CANNOT** go back to the item/s he/she missed during the said interruption. He/She can only proceed to the item currently being answered when his/her camera is restarted.
- 8. Using a pen and a clean sheet of paper, participants will be writing their answers to the questions within a specified time:
  - a. Easy- 15 seconds
  - b. Moderate- 30 seconds
  - c. Difficult- 60 seconds
- The answer will NOT be considered if the participant fails to raise and show his/her paper on camera after the quizmaster cues to raise his/her board.
- 10. Wrong spelling and abbreviations will NOT be considered correct.
- 11. Each correct answer will be given the following points:
  - Easy- 1 point; Moderate- 2 points; Difficult- 3 points
- 12. The following scores should be reached for a participant be given an award:
  - a. 75-100% Gold Awardee
  - b. 55-74.99% Silver Awardee
  - c. 40-54.99% Bronze Awardee
- 13. The highest scorers at the end of all rounds will also be declared as 1st, 2nd, and 3rd top scorers.







### Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

- 14. In case of tie-breaks, a clincher round will commence. The first sole participant who will get the correct answer will be declared the winner.
- 15. Protests must be raised immediately after every question. The protests will be answered and decided by the board of judges. Their decision is final and irrevocable.

#### Prizes:

1st top scorer: 3,000 pesos load and certificate of recognition

2<sup>nd</sup> top scorer:2,000 pesos load and certificate of recognition

3rd top scorer: 1,000 pesos load and certificate of recognition

Gold, Silver, and Bronze Awardees will be given a certificate of recognition

The top scorer for each District will also be given 200 pesos load and certificate of recognition.

The rest will receive a consolation prize (participants and coaches): 100 pesos load

#### STEAM JINGLE-MAKING COMPETITION (FOR GRADE 5; Deadline: Feb. 2, 5:00pm)

#### **Guidelines and Mechanics:**

- 1. Who may participate:
  - A. Open to all elementary school.
  - B. Each group may be composed of 3-6 members, could be students from different grade level.
- 2. Entry and format requirements:
  - A. Song entries must:
    - 1. Be relevant to the theme
    - 2. Be originally written and arranged by the participants. No part of the lyrics be copied from lines of other songs or infringe on any copyright or any other rights of any third party. The organizers shall not be liable from and against any claims inconsistent with the aforementioned.
    - 3. Be written in English and/or Filipino (mixture of English and/or Filipino will be allowed)
    - 4. Entry must be 2 to 3 minutes
    - 5. Be rendered in a genre selected by the participants.
    - 6. Not contain any indecent and offensive words.
  - B. Costs of interpreting, performing, and recording of the song entry, and other expenses related to the contest including the use of musical instruments shall be borne by the participants.







## Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

- C. Any musical instruments may be used as accompaniment.
- D. Participants who will not adhere to these conditions shall be automatically disqualified.
- 3. Number and Submission of entries
  - A. entry must be submitted in an MP3 or MP4 format
  - B. One (1) printed copy of the lyrics with the title
  - C. Accomplished Parent or guardian's consent
  - D. Submission of entries starts on Jan 3. until Feb. 2. All requirements shall be emailed to rbzapico@carc.pshs.edu.ph
- 4. Judging of entries:
  - A. The Board of Judges shall be composed of five (5) music experts.
  - B. The decision of the judges will be final and irrevocable.
  - C. All entries shall be judge according to the following criteria:

Criteria	Description	Weight
Originality and Creativity	Applied song writing style, technique, and skills	30%
Lyrics	Effectiveness and Appropriateness of message to Theme	30%
Melody	Recall, strength, rhythm, and harmony	30%
Overall Appeal	Suitability and recording	10%
	TOTAL	100%

#### Prizes:

1<sup>st</sup> place: 3,000 pesos load and certificate of recognition 2<sup>nd</sup> place: 2,000 pesos load and certificate of recognition 3<sup>rd</sup> place: 1,000 pesos load and certificate of recognition

The top scorer for each District will also be given 200 pesos load and certificate of recognition. The rest will receive a consolation prize (participants and coaches): 100 pesos load & certificate

## EXTEMPORANEOUS SPEAKING COMPETITION (FOR GRADE 5; Feb. 3, 1-3:00 pm)

#### **Guidelines and Mechanics:**

- 1. Each school is allowed to field **one (1)** Grade 5 pupil for the competition on Feb. 3, 1pm-onwards.
- Speech must be delivered in English.
- 3. Speakers shall pick a number with a designated question and are given 3 minutes to prepare and 3 minutes to deliver.
- Order of presentation shall be determined by the organizers.
- 6. A 1-point deduction will be given for every 10 second extension.
- 7. Criteria for judging are as follows:

40%- Content







## Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

30%- Delivery

20%- Organization

10% Overall Impact

**TOTAL: 100%** 

8. There are two options where the pupil can participate:

a. via Zoom: The participant who will be delivering their speech shall be prompted to go to a breakout room and shall be asked to return to the holding room after they have delivered their speech.

b. via Phone call (no internet needed). The participants should carry a cell phone with a stable signal during the competition proper. No internet data will be required.

On the day of the competition, a phone call will be received by the participant. The theme and question will then be relayed to the participant.

9. The top 3 (three) pupils with the highest scores for will be awarded 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place winners. Top scorers for each province will also be recognized.

#### Prizes:

The three participants/entries with the highest scores will be given the following:

#### **Regional Winners:**

1st place: 1,500 pesos load and certificate of recognition 2nd place: 1,000 pesos load and certificate of recognition

3rd place: 500 pesos load and certificate of recognition

The top scorer for each District will also be given 200 pesos load and certificate of recognition.

Consolation prize (for participants and coaches): 100 pesos load each, and certificate of participation.

### POSTER-SLOGAN COMPETITION (FOR GRADE 5; Deadline: Feb. 2, 5:00pm)

#### Mechanics:

- Each school is allowed to field one (1) Grade 5 student for the competition.
- 2. The participant should prepare the following for the event:
  - a. long bond paper
  - b. coloring materials (regular and/or pastel crayons only)
  - c. pencil/ ballpen
  - d. a cell phone with a camera connected to the internet
  - e. Messenger application installed in their cellphone
- 3. During the competition date, Feb. 2 at exactly 8:00 am, the registered participants will receive a text message containing the theme of the event.
- 4. The participants will be given 3 hours to produce their poster-slogan (9:00am-12:00nn).
- 5. The participants will then take a picture of their artwork using their cellular device and send the picture via *Messenger* to Aryel Barrias or email the picture to Idacumos@carc.pshs.edu.ph
- To give time for schools with limited reach to the internet, the window period of accepting entries will be until 5:00pm of the same competition date.
- 7. Rubrics:
  - a. Creativity- 30%



4



### Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

- b. Craftmanship (slogan)- 40%
- c. Originality- 20%
- d. Grammar- 10%
- 8. The top 3 (three) pupils with the highest scores for will be awarded 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place winners. Top scorers for each province will also be recognized.

#### Prizes:

The three participants/entries with the highest scores will be given the following:

#### **Regional Winners:**

1<sup>st</sup> place: 1,500 pesos load and certificate of recognition 2<sup>nd</sup> place:1,000 pesos load and certificate of recognition 3<sup>nd</sup> place: 500 pesos load and certificate of recognition

The top scorer for each District will also be given 200 pesos load and certificate of recognition.

Consolation prize (for participants and coaches): 100 pesos load each, and certificate of participation.

## STEM Video-making Competition for Elementary (Any Grade Level; Deadline of submission: Feb. 2, 2022- 5:00pm)

- Theme: Karsiyensiya-Fostering S&T at the grassroots
  - Videos must adhere to the theme of the event and showcase Science and Technology in everyday life. The video may showcase at least one STEM idea and its relevance to everyday life (everyday applications, livelihood, fun experiments, toys, etc.).
- Length of video: 2-3 minutes
- Video format: preferably in MP4 format, participants may also choose to upload their video on Youtube and send a link as their entry.
- Technical details:
  - Only one entry per student is allowed but schools may send multiple entries
  - Students may also work as a pair or group in one video entry. There will be no individual or team category. Videos will be judged per entry.
  - Language: any language may be used (please provide a subtitle or translation of the script in Filipino/English)
  - Audio: must be clear and understandable
  - Students may be assisted by their parents or teachers in shooting and editing the video.
  - Submit your entries on or before Feb. 2, 2022, 5:00pm to Mr. Leo Dacumos, Idacumos@carc.pshs.edu.ph
- Judging Criteria
  - Adherence to the theme: 40%
  - Clarity and audibility: 40%







## Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

Overall presentation: 20%

Entries may be sent through email or text with the following details: Use the subject: STEM Video-making Competition in your email/text, Name of School (include category Elem/HS), Name of Student/s, Name of coach/es, Video title, Video File Attachment or Youtube Link (if available).

Prizes:

#### Regional Winners:

1<sup>st</sup> place: 5,000 pesos load and certificate of recognition 2<sup>nd</sup> place: 3,000 pesos load and certificate of recognition 3<sup>rd</sup> place: 1,500 pesos load and certificate of recognition

## Virtual Display Board for Science/Engineering Inventions (Any Grade Level; Deadline: Feb. 2, 5:00pm)

#### **Guidelines and Mechanics:**

1. Use the table below as a template for Submission:

Title	The title should be concise but convey the essence of the product or invention.
Picture	Image of the product/invention only
Overview	What is the problem that the invention solves?
Key Features	How does the invention work? What distinguishes this invention from others?
Benefits and Impact	What are the advantages and consequences of this invention for humans? How will the invention address the problem? Who will benefit the invention?
Name of inventors/Developers	Who is/are the inventors?

#### Specifications:

Create the Virtual Layout on an A3 sized page (portrait orientation). Observe the following:

- 1. The text should be readable.
- 2. The images and/or moving GIF should be clear (high resolution)
- 3. The background should be simple and with clear contrast against text and images. Judging Criteria:

The following criteria will be used to evaluate each invention:

a.	Originality and Innovation	40%
b.	Functionality and Practicality	30%
	Impact on the Community	30%

Components	Criteria & Rating



**LÇ** 



## Department of Education

Cordillera Administrative Region Wangai, La Trinidad, Benguet

Originality & innovation	33 – 40 points	25 – 32 points	17 – 24 points	9 16 points	1-8 point/s
	The invention is (1) novel, with no similar product/process, and (2) reflects high level of creativity or ingenuity.	The invention is produced from modification of existing product/process and reflects high level creativity or ingenuity.	The invention is patterned from existing product/process and reflects some level of creativity or ingenuity.	The invention is based on existing product/product.	The invention lacks novelty.
Functionality &	25 – 30 points	19 – 24 points	13 – 18 points	7 – 12 points	1-6 point/s
practicality	The invention is logically developed with the use of mostly locally available materials (indigenous and/or underutilized).	The invention is logically developed with the use of some locally available materials (indigenous and/or underutilized).	The invention is somehow logically developed using few locally available materials (indigenous and/or underutilized).	The invention is developed using commercially available materials.	The invention lacks logicalness.
Impact on the	25 – 30 points	19 – 24 points	13 – 18 points	7 – 12 points	1-6 point/s
community	The invention addresses a problem in the region and could be easily use by ordinary people.	The invention addresses a problem in the region and could be use by ordinary people after familiarization.	The invention somehow addresses a problem in the region and could be use by ordinary people after familiarization.	The invention somehow addresses a problem in the region but complex to be use by ordinary people.	The invention does not address a problem in the region, neighboring region, or in the country.

Who can participate:







## Department of Education

Cordillera Administrative Region Wangai, La Trinidad, Benguet

- All competing teams/individual shall come from any public/private schools within Cordillera Administrative Region.
- The product/invention entry can be composed of a team or a sole inventor.
- If by team, the members can be composed of levels from Grade 7 to 10 (up to 5 members).
- One entry per school. If school has both elementary and high school, they
  may be allowed to submit 1 entry per category.

#### Mechanics of product/invention:

The product to be developed shall be made from indigenous materials available within their area. Submit your entries to Mr. Leo Dacumos at Idacumos@carc.pshs.edu.ph

#### **Regional Winners:**

1<sup>st</sup> place: 5,000 pesos load and certificate of recognition 2<sup>nd</sup> place:3,000 pesos load and certificate of recognition 3<sup>rd</sup> place: 1,500 pesos load and certificate of recognition

## EVENTS AND GUIDELINES FOR HIGH SCHOOL PARTICIPANTS

STEAM 2021 Oratorical Speech Competition (Grade 10-12) Feb. 3, 2022, 1:00-3:00 pm

#### **Guidelines and Mechanics:**

- 1. Speech must be delivered in English
- 2. Speech shall be an original composition (cite references if needed)
- 3. Speech shall be delivered in 5-6 minutes
- 4. Speech shall revolve around the theme "Fostering Science and Technology at the Grassroots"
- 5. Copy of speeches shall be submitted to the organizers before the actual competition
- Order of presentation shall be determined by the organizers
- 7. Overtime/Undertime shall have corresponding deductions
- 8. Criteria for judging are as follows:

30%- Content

40%- Delivery

20%- Mastery

10%- Overall impac

Note: There shall be a holding room for all participants. The participant who will be delivering their speech shall be prompted to go to a breakout room and shall be asked to return to the holding room after they have delivered their speech.

Prizes:







## Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

The three participants/entries with the highest scores will be given the following:

**Regional Winners:** 

1<sup>st</sup> place: 3,000 pesos load and certificate of recognition 2<sup>nd</sup> place: 2,000 pesos load and certificate of recognition 3<sup>rd</sup> place: 1,000 pesos load and certificate of recognition Virtual Display Board for Science/Engineering Inventions

(FOR GRADE 7-10; Deadline: Feb. 2, 5:00pm)

**Guidelines and Mechanics:** 

1. Use the table below as a template for Submission:

Title	The title should be concise but convey the essence of product or invention.			
Picture	Image of the product/invention only			
Overview	What is the problem that the invention solves?			
Key Features	How does the invention work? What distinguishes this invention from others?			
Benefits and Impact	What are the advantages and consequences of this invention for humans? How will the invention address the problem? Who will benefit the invention?			
Name of Inventors/Developers	Who is/are the inventors?			

#### Specifications:

Create the Virtual Layout on an A3 sized page (portrait orientation). Observe the following: The text should be readable.

The images and/or moving GIF should be clear (high resolution)

The background should be simple and with clear contrast against text and images.

#### Judging Criteria:

The following criteria will be used to evaluate each invention:

Originality and Innovation 40% Functionality and Practicality 30%

Functionality and Practicality 30% Impact on the Community 30%

Components	Criteria & Rating					
Originality & Innovation	33 – 40 points	25 – 32 points	17 – 24 points	9 – 16 points	1 – 8 point/s	
	The invention is (1) novel, with no similar product/process, and (2) reflects high level of creativity or ingenuity.	The invention is produced from modification of existing product/process and reflects high level creativity or ingenuity.	The invention is patterned from existing product/process and reflects some level of creativity or ingenuity.	The invention is based on existing product/product.	The invention lacks novelty.	







## Department of Education

Cordillera Administrative Region Wangal, La Trinidad, Benguet

Functionality &	25 – 30 points	19 - 24 points	13 – 18 points	7 – 12 po <del>i</del> nts	1 – 6 point/s
& practicality	The invention is logically developed with the use of mostly locally available materials (indigenous and/or underutilized).	The invention is logically developed with the use of some locally available materials (indigenous and/or underutilized).	The invention is somehow logically developed using few locally available materials (indigenous and/or underutilized).	The invention is developed using commercially available materials.	The invention lacks logicalness.
impact on	25 – 30 points	19 – 24 points	13 – 18 points	7 – 12 points	1-6 point/s
community	The invention addresses a problem in the region and could be easily use by ordinary people.	The invention addresses a problem in the region and could be use by ordinary people after familiarization.	The invention somehow addresses a problem in the region and could be use by ordinary people after familiarization.	The invention somehow addresses a problem in the region but complex to be use by ordinary people.	The invention does not address a problem in the region, or in the country.

Who can participate:

All competing teams/individual shall come from any public/private schools within Cordillera Administrative Region.

The product/invention entry can be composed of a team or a sole inventor.

If by team, the members can be composed of levels from Grade 7 to 10 (up to 5 members). One entry per school. If school has both elementary and high school, they may be allowed to submit 1 entry per category.

Mechanics of product/Invention:

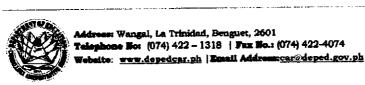
The product to be developed shall be made from indigenous materials available within their area.

#### **Regional Winners:**

1<sup>st</sup> place: 5,000 pesos load and certificate of recognition 2<sup>nd</sup> place: 3,000 pesos load and certificate of recognition 3<sup>rd</sup> place: 1,500 pesos load and certificate of recognition

**Photography Competition** 

(Grade 10-12; Deadline of submission: Feb. 2, 2022, 5:00pm)





ISO 9001:2015 Certified Quality Management System DE-50500784 QM15

First prize: 3,000 and certificate of recognition 2<sup>nd</sup> prize: 2,000 and certificate of recognition 3<sup>rd</sup> prize: 1,000 and certificate of recognition

STEM Video-making Competition for High School (Any Grade Level; Deadline of submission: Feb. 2, 2022- 5:00pm)

- Theme: Karsiyensiya-Fostering S&T at the grassroots
  - Videos must adhere to the theme of the event and showcase Science and Technology in everyday life. The video may showcase at least one STEM idea and its relevance to everyday life (everyday applications, livelihood, fun