

September 26, 2018

Division Memorandum
No. 655, s. 2018

**2018-DIVISION SCIENCE FAIR AND COMPETITION-
SECONDARY LEVEL**

To: Assistant Superintendents
Chiefs, SGOD and CID
Education Supervisors / Coordinators
District Supervisors / OICs
Secondary School Heads
Heads, Private Secondary Schools

1. This office announces the conduct of the 2018-Division Science Fair and Competition-Secondary Level with the theme “ **WAVEFRONT : Accentuating potentials, activating technological advancements.** ” on **October 15, 2018 , at Tabunan National High School , Borbon, Cebu.**

2. Only the first place winners of the following categories in every municipality will be eligible to participate:

- Science Quiz (Written)(Grades 7 to 10)
- Science Quiz Bowl (Oral -Individual Category)(Grades 7 to 10)
- Poster Making(Junior High School)
- Slogan Writing(Junior High School)
- Investigatory Projects (Junior High School/Senior High School)

Note: Science Investigatory Projects Competition will be conducted on October 9, 2018 at Immaculate Heart of Mary Academy, Minglanilla, Cebu

- SIM (Teacher Category -any grade level as long as it addresses the Least Mastered Competency)

3. Relative to this, all public and private secondary schools are enjoined to participate this contest.

4. School heads are directed to ensure that no classes will be left unattended due to the attendance/participation of the said teachers to this competition.

5.Registration is 50php/contestant and 50php for the coach will be collected to defray the expenses for the honoraria of panel of judges of Investigatory Projects, Poster Making, Slogan Writing and Strategic Intervention Material(SIM) chargeable against Science Club Funds/ Local School Board/SEF/PTA Funds, while transportation, materials and other related expenses to be used in the contest and per dime incurred in connection with the activities shall be chargeable to Local /School MOOE or any available funds subject to the usual accounting and auditing rules and regulations.

6. Attached is the final list 2018- Division Science Fair and Competition Working Committees –Secondary Level and the criteria for judging.

6. This Memorandum serves as **Authority to Travel** of the participants, coaches, Secondary Science Specialists, Secondary Science Officers, Secondary School Heads and District Supervisors.

7. Immediate dissemination of this Memorandum is desired.

RHEA MAR ANGTUD, ED.D., CESO VI
Schools Division Superintendent

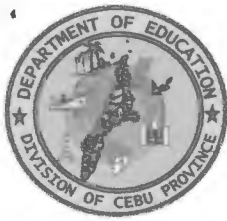
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Accounting Section: (032) 254-2632

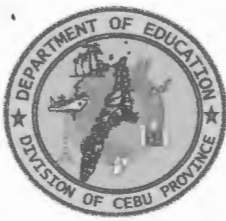


**2018 DIVISION SCIENCE FAIR AND COMPETITION
 SECONDARY LEVEL
 October 15, 2018**



WORKING COMMITTEES

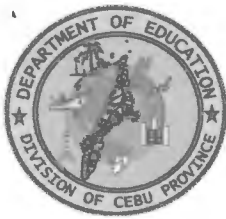
SCIENCE QUIZ (WRITTEN) GRADE 7		
Chairman	Anselma D. Undalok	Sibonga NHS
Members	Clarissa Belarmino	Badian NHS
	Riza Yatoc	Consolacion NHS
	Neizi Garcesa	Calape NHS
	Gladys Dejos	Tubod NHS
	Gina Vergara	Ronda NHS
	Ma. Leonora Taping	Santa Filomena NHS – Alegria
SCIENCE QUIZ (WRITTEN) GRADE 8		
Chairman	Rizalina Sambola	Argao NHS
Members	Michelle Famor	Argao NHS
	Vina Martha Lagurin	Tulay NHS – Minglanilla
	Esmeralda Rufin	Consuelo NHS – San Francisco
	Suzette Omega	Argao NHS
	Delia Galleto	Cordova NHS
SCIENCE QUIZ (WRITTEN) GRADE 9		
Chairman	Crispina Ambrad	Calape NHS
Members	Janet Gomez	Calape NHS
	Mary Daudette Kiamko	Looc Norte NHS
	Althanena Sayson	Argao NHS
	Dorie-Ann Bareja	Compostela Sci and Tech
	Meryl Jarina	Guindaruhan NHS – Minglanilla
SCIENCE QUIZ (WRITTEN) GRADE 10		
Chairman	Fidela Doroon	Oslob NHS
Members	Ronelo Buton	Catmon NHS
	Loida Avellana	Vito NHS – Minglanilla
	Lea Ferras	Samboan NHS
	Nenita Mercado	Dalaguete NHS
	Arlyn Millian	Sogod NHS
SCIENCE QUIZ (ORALS) GRADE 7		
Chairman	Misphat Xylph Miral	Santander NHS
Members	Rosemarie Albacite	Compostela NHS
	Sherryl Moninio	Calape NHS
	Delia Gerundio	Looc Norte NHS
	Rodel Alindogan	Looc Norte NHS
	Norie Galo	Looc Norte NHS



Republic of the Philippines
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 Sudlon, Lahug, Cebu City



SCIENCE QUIZ (ORALS) GRADE 8		
Chairman	Elve Jayme	Consolacion NHS
Members	Maria Tresica Silvederio	Consolacion NHS
	Rowena Espinosa	Consolacion NHS
	Doris Antolijao	Consolacion NHS
	Jesusa Ramirez	
	Roderick Cayamanda	Compostela NHS
	Leah Bugtai	Arcelo MNHS
SCIENCE QUIZ (ORALS) GRADE 9		
Chairman	Alvin Gerald Malig-on	Sangat NHS – San Fernando
Members	Marylen Concepcion	Panares MNHS – Barili
	Geraldine Almirante	Argao NHS
	Chiquelnoc	Tungkop NHS – Minglanilla
	Joan Marie Hubahib	Medellin NS&TS
	Alexandra De Guzma	Kawit NHS
	May Edalyn Pena	Luciano V. Rama
	Marjorie Cauagdan	San Remigio
SCIENCE QUIZ (ORALS) GRADE 10		
Chairman	Mertinda Lorenzana	Compostela NHS
Members	Elisarie Tanjay	Compostela NHS
	Mark Oliver Rabino	Compostela NHS
	Nori Bautro	Buanoy NHS
	Benjamin Penalosa	Santa Fe NHS
	Gemma Palma	Liloan NHS
	Ronald Dale Arioja	Compostela NHS
POSTER MAKING		
Chairman	Jun Mathew Ares	Carmen NHS
Members	Rogene Estipona	Aloguinsan NHS
	Clemente Abcede	Carmen NHS
	Francisca Ditan	Bitoon Vocational
	Erogem Ann Dum Dum	Ginatilan IS
	Armando Marsan	Bitoon NHS
SLOGAN WRITING		
Chairman	Christina Cinco	Carmen NHS – Day
Members	Cris Dela Peña	Carmen NHS
	Lauren Ong	Boljoon NHS
	Ledwina Giangan	Carmen NHS
	Charle Matondo	Carmen NHS
	Joysie Jumao-as	Calape NHS



STRATEGIC INTERVENTION MATERIALS		
Chairman	Jeaneth Menoras	Buanoy NHS
Members	Jessica P. Zoilo	Compostela NHS
	Patterson Ponce	Liloan NHS
	Mayada Landao	Santa Fe NHS
	Suzette Quindao	Nangka NHS
	Diana Jane G. Cabahug	Compostela NHS
SCIENCE INVESTIGATORY PROJECT Life Science and Physical Science		
Chairman	Jade Bacon	Minglanilla Science HS
Members	Romin Sanchez	Minglanilla Science HS
	Jean Morales	Minglanilla Science HS
	Ivy Ursal	San Remegio NHS
	Rima Joy Tejam	Buanoy NHS
	James Hortezuella	Argao NHS
	Jane Cedeno	Minglanilla Science HS
	Fatima Joy Masong	San Remegio NHS
	Vanesa Montes	Carmen NHS
ROBOTICS CHAIRMAN	Rowena Espinosa	Badian NHS

Program, Documentation and Awards

Chairman Carlito M. Combis
Members All Tabunan NHS Science Teachers

Registration

Chairman Daylinda Cabatingan (Treasurer – SedSS)
Members All Science Educators of Secondary Schools (SEdSS) – Cebu
 Province Officers

Over-all Chairman Juvimar E. Montolo
 Education Program Supervisor – Science

Vice Chairman Rumell E. Engbino (Vito NHS-Minglanilla)
 President, Science Educators of Secondary Schools (SedSS) Cebu
 Province

Members All Committee Chairmen

Noted by:

JUVIMAR E. MONTOLO
 Education Program Supervisor
 Science



MECHANICS FOR JUDGING

SLOGAN WRITING CONTEST MECHANICS

7. The participants should be officially registered by the registration committee. There should only be one (1) participant / entry from each district/municipality.
2. The materials required are

One-half lengthwise white cartolina	pencil	eraser
Craypas/oil pastel	black my gel ballpen	
Black pentel (for borders only)		
3. The following are the guidelines
 - The slogan consists of seven (7) words ONLY. Hyphenated IS ONE WORD. Punctuation not counted.

Words.

 - One inch (1-inch) all-around margin (pre-made) using pentel pen
 - Plain background

Optional My gel black ballpen is used for outlining the words and the black pentel pen for making the border. Colored pens not allowed for tracing.
4. Criteria for Judging

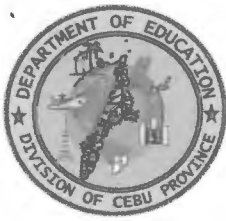
Relevance to the Theme	30%
Creativity / Style	30%
Technical Skill	20%
Visual Impact	10%
Neatness and Correctness	<u>10%</u>
TOTAL	100%
5. NO bringing of copies (actual illustration, etc) of their slogan, or else the entry will be disqualified.
6. The contest is good for one (1) hour.
7. The decision of the Board of Judges is final and irrevocable.

POSTER MAKING CONTEST MECHANICS

7. The participants should be officially registered by the registration committee. There should only be one (1) participant/entry from each district/municipality.
2. The materials needed are

One (1) whole white cartolina	Pencil
Ruler	Eraser
Craypas/oil pastel	
3. The following are the guidelines
 - One inch (1-inch) all-around margin (pre-made)
 - Abstract and NO additional texts is allowed in the poster made. All spaces must be filled with colors even if it is intended to be white.
 - Use only the prescribed materials.
4. Criteria for Judging

Relevance to the Theme	30%
Creativity / Style	30%
Technical Skill	20%
Visual Impact	10%
Neatness	<u>10%</u>
TOTAL	100%



5. NO bringing of small (actual illustration, etc.) copy of their poster.
6. The contest is good for two (2) hours.
7. The decision of the Board of Judges is final and irrevocable.

SCIENCE QUIZ WRITTEN MECHANICS

4. The participants should be officially registered by the registration committee. There should only be one (1) participant from each year level from each school.
2. The materials needed are
 - Ballpen (black)
 - Clean paper for scratch only (to be provided)
3. The following are the guidelines
 - Contestants will answer 60 ITEMS test for 60 minutes.
 - In case of tie, CLINCHER will be facilitated.
 - Calculators are NOT allowed.
 - * Coverage is First and Second Quarter.
6. The facilitators are the only authorized persons to check the test papers and record the scores.
7. After checking and recording, return the test papers to the contestants.

SCIENCE QUIZ (ORALS) MECHANICS

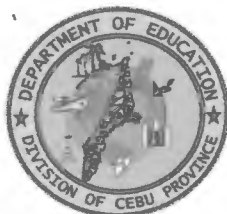
5. The participants should be officially registered by the registration committee. There should only be one participant per municipality/district.
2. The materials needed are
 - Chalk / White Board pen
 - One-eight illustration board / white board

3. The following are the guidelines

- Contestants will answer the three (3) levels: easy, average, and difficult questions.

POINT	CATEGORY	NO. OF ITEMS	TIME ALLOTMENT	EQUIVALENT
	Easy	10	30 seconds	1
	Average	10	45 seconds	3
	Difficult	5	60 seconds	5

- In case of tie, there will be a CLINCHER round.
 Clincher questions (no choices) is taken from the clincher questions prepared by the committee
 and given thirty (30) seconds to answer. First to get the correct answer, will take the spot of the rank.
 - Questions will be read twice only. And read the explanation after giving the correct answer.
 - * Coverage is First and Second Quarter Topics
 - NO Calculators allowed.
4. The facilitators are the only authorized persons to read the questions (quizmaster), recorders of the scores, and timer.
 6. Tally sheet must be posted on the blackboard (prepared by the Facilitators)



CRITERIA FOR STRATEGIC INTERVENTION MATERIALS (SIM)-Teacher Category

Note: Be prepared beforehand. Prepare a soft copy of the SIM to be presented within 3 to 5min. MOVs of usability/functionality/classroom use- LP, Form 14 and ASs with a minimum of 30 pupils for elementary and 40 students for secondary.

ENTRIES

AREA		1	2	3	4	5	6
1.Subtasking	15%						
-Competency-based	5						
-Bloom's Taxonomy followed	6						
-SMAR-C (Specific, Measurable, Attainable, Relevant and Concise)	4						
2.Congruence	15%						
-Activities in line with content and skills	5						
-Assessment in line with content and skills	10						
3.Usability/Functionality	45%						
a.Language	3						
b.Title Card	2						
c.Guide Card	4						
d.Activity Card	14						
e.Assessment Card	3						
f.Enrichment Card	3						
g.Reference Card	3						
h.Answer Card	2						
i.Packaging	8						
j.Functionality	3						
4.Replicability	25%						
-Validated before classroom use	5						
-Developed Material based on least learned learning competency	5						
-Materials used improved mastery level	10						
-Handy and easy to copy	3						
-Cost	2						
TOTAL	100%						

Note : Items a,b,h, &i of no.3 no rubrics in attached separate page.



3. Usability/ Functionality (No a, b, h, d, i) rubrics
- c. Guide Card %
 - 1. Gives preview of what students will learn
 - 2. Stimulates interests in the topic
 - 3. Presents the focus skills
 - a. Mentions the learning competencies
 - b. States at least three sub-tasks (activities)
 - c. Builds on prior learning/pro-requisites
 - d. Mentions the concrete outcome or product students are expected to demonstrate/produce
 - 4. Cites briefly the activities
 - 5. Challenges the learner in performing the tasks
 - d. Activity Card %
 - 1. Translate the focus skills into at least three activities
 - 2. Provides activities that/where:
 - a. are organized based on the sequence of the focus skills (in the Guide Card)
 - b. have clear directions
 - c. provide examples to concretize the concepts particularly those drawn from real-life experience
 - d. students can complete independently, in parts, or in small groups
 - e. allow students to make discoveries and formulate ideas of their own
 - f. guides and challenges students' thinking and learning
 - g. uses local data and situations (e.g. interacting with people in the community)
 - 3. Provides transition statements that recognize students accomplishments
 - 4. Provides questions that:
 - a. guide the development of concepts/focus skill
 - b. elicit the message or meaning that a student can take away from an activity/experience
 - c. establish the relationship between the topic/lesson and what is/are familiar to them
 - d. develop the skills in the three domain
 - e. Assessment Card %
 - 1. Provide exercises, drills and activities that allow students to:
 - a. assess their understanding of what they have learned and correct errors when appropriate
 - b. monitor their learning and use feedback about their progress
 - 2. Formulates standard tests formats to give students practice in test-taking techniques
 - 3. Gives clear directions
 - 4. Provides an answer key (in separate card)
 - f. Enrichment Card %
 - 1. Provides activities that reinforce the content of the lesson
 - 2. Provides opportunities for students to:
 - a. apply what they have learned to other subject areas or in new context
 - b. work independently or in groups to explore answers to their own questions
 - g. Reference Card %
 - 1. Provides readings that relate content with students experiences
 - 2. Provides a carefully researched list of resources that:
 - a. will reinforce concepts/skills learned
 - b. provide additional content not found in the textbook
 - c. students may refer for further reading
 - j. Functionality %
 - 1. A study was conducted and submitted by the teacher as to why and how the SIM was prepared
 - 2. SIM has been in used:
 - a. Less than a year (1 point)
 - b. 1 - 3 years (4 points)
 - c. 4 years and more (5 points)



CRITERIA FOR SCIENCE INVESTIGATORY PROJECTS

Scientific Thoughts and Engineering Goals -----**30%**

1. Scientific Thought

- a. Brief and clear statement of the problem
- b. Well defined procedure

2. Engineering Goals

- a. Clear and relevant objectives
- b. Economically feasible solutions

3. Potential contributions/practical value

Creativity, Resourcefulness and Inventiveness -----**30%**

- a. Creative ability in presenting the problem/ in the approach to solve the problem
- b. Innovative design/ new idea shown
- c. Intelligence and imagination in finding ways/ means to undertake the project

Thoroughness -----**15%**

- a. Familiarity with scientific literature in the relative field
- b. Awareness of other approaches or theories
- c. Appropriateness of methodology

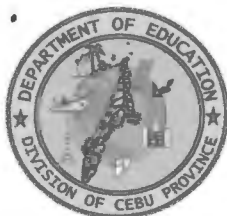
Research Skill -----**15%**

- a. Use of laboratory equipment/ innovative resources
- b. Appropriate, orderly and effective presentation of data

Oral Presentation Skill -----**10%**

- a. Clear and thorough discussion of the project
- b. Clarity and consciousness of explanation pertaining to important aspects of the research proposal
- c. Presentation aided by AV materials
- d. Over-all personality
 - self confidence
 - enthusiasm

TOTAL -----**100%**



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DIVISION OF CEBU PROVINCE
 Science Educators of Secondary Schools



2018 DIVISION SCIENCE FAIR AND COMPETITION

October 15, 2018

Venue: Tabunan National High School, Borbon, Cebu

ENTRY FORM

Name of Municipality:

Name of Municipal/District Science Coordinator:

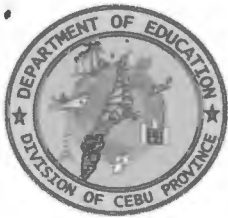
Competitions/Events	Name of Contestants	Name of Coach	Name of School	Name of School Principal
ORAL GRADE 7				
ORAL GRADE 8				
ORAL GRADE 9				
ORAL GRADE 10				
WRITTEN GRADE 7				
WRITTEN GRADE 8				
WRITTEN GRADE 9				
WRITTEN GRADE 10				
POSTER MAKING				
SLOGAN WRITING				
SIM				

Prepared by:

 District/Municipal Science Coordinator

Noted by:

 Public Schools District Supervisor



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 Sudlon, Lahug, Cebu City



Republic of the Philippines
 Region VII, Central Visayas
 DIVISION OF CEBU PROVINCE
 Science Educators of Secondary Schools



2018 DIVISION SCIENCE FAIR AND COMPETITION -INVESTIGATORY PROJECTS

Date: October 9, 2018

Venue: Immaculate Heart of Mary Academy, Minglanilla Cebu
 Agustinian Recollect School, Pob.Ward IV, Minglanilla, Cebu

ENTRY FORM

Name of Municipality: _____

Name of Municipal/District Science Coordinator _____

Competitions/Events	Name of Contestants	Name of Coach	Name of School	Name of School Principal
Physical Science (Ind.)				
Physical Science (Team)				
Life Science(Ind.)				
Life Science (Team)				
Robotics & Intelligent Machine(Ind.)				
Robotics & Intelligent Machine (Team)				

Prepared by:

 District/Municipal Science Coordinator

Noted by:

 Public Schools District Supervisor