



Republic of the Philippines  
**Department of Education**  
Region XI  
**SCHOOLS DIVISION OF DIGOS CITY**  
Digos City



**Division Advisory No. 157, s. 2019**  
**November 11, 2019**

**2020 National Science and Mathematics Power Quiz  
and Research Congress**

1. Attached is the Letter of Engr. Frederick A. Eduvane, President/CEO, Science-Math Brain Power Corporation, inviting participation to the 2020 National Science and Mathematics Power Quiz and Research Congress on January 17-19, 2020 inside the University of the Philippines Diliman campus.
2. It is reiterated that the attendance to said competition is purely voluntary and subject to the discretion of the School Head/Administrators as to ensure that the policy on engaged-time-on-task will be followed
3. The participation of the public school teachers shall be on official time and no DepEd funds shall be utilized in their attendance.
4. For information, guidance and reference.

  
CRISTY C. EPE, CESE  
Schools Division Superintendent

Encls: As stated

References: Letter from Engr. Frederick A. Eduvane, dated October 23, 2019

To be indicated in the Perpetual Index under the following subjects:

CURRICULUM

SCIENCE/MATHEMATICS

COMPETITION

lbj: 2020 national science and mathematics power quiz and research congress  
11 November, 2019

DepEd Schools Division of Digos City

RECORDS SECTION

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DATE: NOV 12 2019 TIME: 10:06

BY: 

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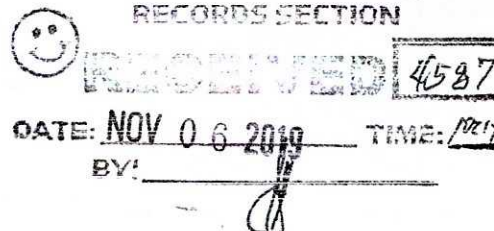


(047) 251 3799  
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October 23, 2019

**CRISTY C. EPE**  
Schools Division Superintendent  
Digos City

DepEd Schools Division of Digos City  
RECORDS SECTION



Dear Madam:

Warm greetings!

Science-Math Brain Power Philippines will hold the **2020 National Science and Mathematics Power Quiz and Research Congress**, an annual competitive event that aims to promote excellence in science and mathematics subjects in our country. The event will be held on **January 17-19, 2020** inside the **University of the Philippines Dilliman campus**.

In line with this, we would like to request your help in disseminating this invitation through an advisory to your constituent schools.

These are the contest categories:

<b>Science Investigatory Project (SIP)</b>	<i>Elementary and Secondary</i>	Physical Science (Individual and Team) Biological Science (Individual and Team)
<b>Science Power Quiz</b>	<i>Elementary</i>	Science Brain Power Quiz Earth & Environment Power Quiz
	<i>Secondary</i>	General Science Brain Power Quiz National Meteorology and Astronomy Quiz National Geology and Hydrology Quiz
<b>Mathematics Power Quiz</b>	<i>Elementary</i>	Mathematics Brain Power Quiz Mathematics Compute-Fast Relay
	<i>Secondary</i>	General Mathematics Brain Power Quiz Algebra and Geometry Quiz Brain Power Statistics Quiz Mathematics Compute-Fast Relay



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The competition is open for all students from Grade 4 to 12. There will be a registration fee of **three thousand pesos** (Php 3,000).

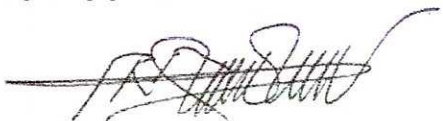
Online registration will start on **November 4, 2019**.

Interested participants may contact us through our phone number **(047) 251 3799** or our e-mail address **admin@sci-mathbrainpower.com**. You may also reach us on Facebook: Science-Math Brain Power Philippines.

Attached herewith are the contest guidelines and schedule of activities for your perusal.

We are looking forward to seeing the best of your students compete in this event. We hope for your favorable response. Thank you very much!

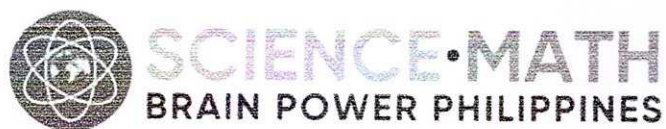
Very truly yours,






**ENGR. FREDERICK A. EDUVANE**

President/CEO

Science-Math Brain Power Philippines Corp.



(047) 251 3799   
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www.sci-mathbrainpower.com 

## 2020 NATIONAL SCIENCE AND MATHEMATICS POWER QUIZ AND RESEARCH CONGRESS

### General Contest Guidelines

1. Bona fide students from Grades 4–6 in the elementary level, and from Grades 7–12 in the secondary level can compete in the different contest categories. It is suggested that the participating schools come up with a system of selecting their school representatives. Valid school ID or principal's endorsement of the contestants shall be presented during the contest registration.
2. Only registered participants are allowed to join in the contests. A contestant is only allowed to compete in at most two (2) contests, considering that most contests will be held simultaneously. Participants must not select two contests with conflicting schedules.
3. A reasonable amount of Php 3,000 for the contest registration fee shall be collected from each participant to defray the expenses on food, venue, honoraria for judges and speakers, compensation for additional technical staff, awards, prizes, materials and others. Food will be provided to the participants for Day 1 (PM snacks), Day 2 (AM snacks, lunch, and PM snacks), and Day 3 (AM snacks).

#### Notes on Registration Fee:

- Early registrants can avail of the early bird promo of 10% discount. This promo will be available only until December 13, 2019.
  - Participants who registered and paid online ten (10) days prior to the contest date will receive a free SMPBB t-shirt. Due to limited availability of sizes, t-shirts will be given on a first-come, first-served basis.
4. For every ten (10) student participants per school, one (1) coach/adviser's registration will be free of charge. If the school does not meet this requirement, the coach/adviser shall pay the full registration fee. Regional Supervisors in Science and Mathematics who wish to attend will be treated as guests free of registration.
  5. Personal accommodations are EXCLUSIVE from the registration fee.

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6. Participants will answer a paper-and-pencil test within one hour. Refer to the following table of specifications for the tests:

SCIENCE		MATHEMATICS	
Elementary	Secondary	Elementary	Secondary
<b>50 items</b>	<b>30 items</b> (15 easy, 10 average, 5 difficult)	<b>18 items</b> (10 easy, 5 average, 3 difficult)	<b>18 items</b> (10 easy, 5 average, 3 difficult)
Multiple-choice	Multiple-choice (easy) Supply-type and problem solving (average & difficult)	Problem solving	Problem solving
50 points	50 points	50 points	50 points

7. A maximum of five (5) contestants per grade level per school can compete in each quiz category.
8. Participants will write their answers on the test paper. They may do use the extra pages questionnaires as scratch paper for computations. All papers will be collected after the test.
9. Winners who will meet the standards of the different contest categories will each be awarded with a medallion and a Certificate of Merit. Participants who do not meet the standards will each receive a Certificate of Recognition. The coach/adviser will also receive a Certificate of Recognition. Trophies and Certificates of Merits will be awarded to three (3) schools with the highest overall standings.
10. All participants and guests must abide by the house rules within the premises and the duration of the event. Student and coaches/advisers must abide by the contest rules and regulations. Punctuality will be strictly observed during the competition.
11. The decision of the judges is final and irrevocable.
12. The organizer reserves the right to make changes in the schedule, contest mechanics, venue, et cetera if deemed necessary, particularly in circumstances beyond their control.

### **MATHEMATICS QUIZ (ELEMENTARY LEVEL)**

1. Mathematics Brain Power (MBP) Quiz
  - The MBP Quiz is open to students from **Grades 4–6**.
  - The test coverage is based on the content standards and competencies from the K-12 Mathematics curriculum.

### **MATHEMATICS QUIZ (SECONDARY LEVEL)**

1. General Mathematics Brain Power (GMBP) Quiz
  - The MBP Quiz is open to students from **Grades 7–12**.
  - The test coverage is based on the content standards and competencies from the K-12 Mathematics curriculum.
2. Algebra and Geometry (AlGeo) Quiz
  - The AlGeo Quiz is open to students from **Grades 7–12**.
  - The test coverage is based on the content standards and competencies from the K-12 Mathematics curriculum, particularly on the topics in Algebra and Geometry
3. Brain Power Statistics (BPStat) Quiz
  - The BPStat Quiz is open to students from **Grades 7–12**.
  - The test coverage is based on the content standards and competencies from the K-12 Mathematics curriculum, particularly on the topics in Statistics.

### **MATHEMATICS COMPUTE-FAST RELAY (MC-FR)**

1. The MC-FR is open to students from **Grades 5–10**. A group of three (3) participants for each grade level per school can compete in this category.
2. In this category, participants will solve a series of math problems given in consecutive stations. The first participant to finish all stations will be declared the winner. The competition will be contained within one and a half hour.
3. All three members of a team must be in their school uniform or PE uniform. They must always wear their school IDs during the contest. Only ink pens may be used in solving the problems.



**2020 NATIONAL SCIENCE AND MATHEMATICS POWER QUIZ  
AND RESEARCH CONGRESS**

## **Specific Contest Guidelines**

### **SCIENCE QUIZ (ELEMENTARY LEVEL)**

1. Science Brain Power (SBP) Quiz
  - The SBP Quiz is open to students from **Grades 4–6**.
  - The test coverage is based on the content standards and competencies from the DepEd K-12 Science curriculum.
2. Earth & Environment (EEP) Quiz
  - The EEP Quiz is open to students from **Grades 4–6**.
  - The test coverage is based on the content standards and competencies from the DepEd K-12 Science curriculum, particularly on the topics in Earth Science. The test also includes contemporary topics on environmental issues and protection.

### **SCIENCE QUIZ (SECONDARY LEVEL)**

1. General Science Brain Power (GSBP) Quiz
  - The GSBP Quiz is open to students from **Grades 7–12**.
  - The test coverage is based on the content standards and competencies from the DepEd K-12 Science curriculum.
2. National Meteorology and Astronomy (NMA) Quiz
  - The NMA Quiz is open to students from **Grades 7–10**.
  - The test coverage consists of fundamental topics in Meteorology and Astronomy.
3. National Geology and Hydrology (NGH) Quiz
  - The NGH Quiz is open to students from **Grades 7–10**.
  - The test coverage consists of fundamental topics in Geology and Hydrology.

3. The Science Investigatory Projects must be new. Participants are not allowed to submit projects from previous years or continuations of previous projects.
4. Each project must be accompanied by a research adviser.
5. For the Team category, the teams will be composed of three to five (3–5) members. Members include the leader, researchers and technical staff.
6. Participants must submit a soft copy of the abstract and the full version of the research paper on or before **January 8, 2020** to ***admin@sci-mathbrainpower.com***. They are also required to bring three (3) hard copies during registration. **Late or non-submission of papers will invalidate the entry.**
7. Papers must follow the prescribed APA format for scientific publications:
  - Typeface: 12pt Times New Roman
  - Paragraph: Double-spaced, aligned left
  - Page: A4-sized white paper, one-inch margin on all sides
  - References: Proper in-text citations and complete bibliography
8. **Abstract.** The abstract will be presented orally within five minutes. Additional 10 minutes will be provided for the questions and clarifications from the Board of Judges. The abstract must include the following:
  - Purpose of the experiment
  - Methodology
  - Findings
  - Conclusion
9. **Research Paper.** The full research paper must include the following:
  - Title page
  - Abstract
  - Introduction (including the problem statement and conceptual framework)
  - Brief Review of Related Literature
  - Methodology (including the design, locale, respondents, and tools used)
  - Findings and discussion
  - Conclusion
  - Recommendation
  - Bibliography



10. **Exhibit.** The exhibit will be put up in the designated area on the first day of the event. The project display must visually summarize and present the information from the science investigatory project. It must be made of an illustration board in portrait orientation, not more than 5 ft x 4 ft in size. Figure 1 shows the specifications for the display.

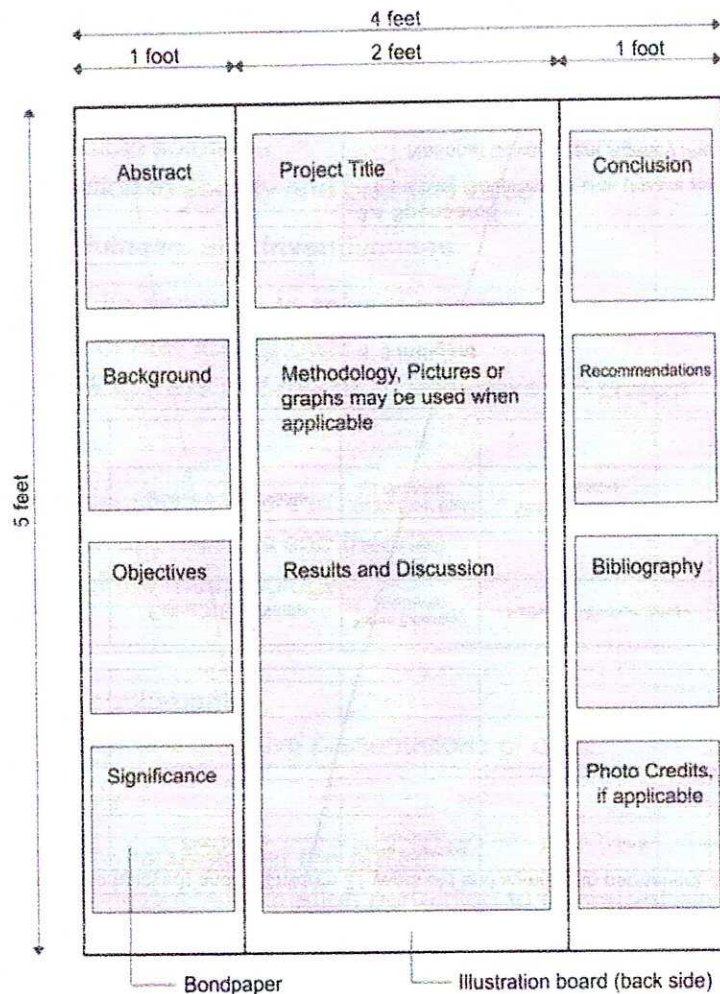


Figure 1. Size, format and contents of the exhibit

11. Living specimens are prohibited from display. For exhibits involving electrical equipment, the participants must bring and set up their own extension wires.
12. Entries will be subjected to preliminary screening. Not more than 50% of the total entries will proceed to the oral defense. The Board of Judges will determine the qualifiers using the partial score obtained from research paper evaluation.

13. The Science Investigatory Projects will be evaluated based on the following criteria:

<b>Scientific Thought and Engineering Goals</b>	<b>30%</b>
Scientific Thought	
a. Brief and clear statement of the problem	
b. Well-defined procedure	
Engineering Goals	
a. Clear and relevant objectives	
b. Economically feasible solutions	
c. Potential contribution to society and practical value	
<b>Creativity, Resourcefulness, and Inventiveness</b>	<b>25%</b>
a. Creative ability in the approach to solve the problem	
b. Innovative design or new idea shown	
c. Intelligence in finding ways and means to undertake the project	
<b>Thoroughness</b>	<b>15%</b>
a. Familiarity with scientific literature in related fields	
b. Awareness of other approaches and theories	
c. Appropriateness of the methodology	
<b>Research Skills</b>	<b>15%</b>
a. Use of laboratory equipment	
b. Appropriate, orderly, and effective presentations of data	
<b>Oral Presentation Skills</b>	<b>15%</b>
a. Clear and thorough discussion of the project	
b. Clarity and conciseness of explanation pertaining to important aspect of the research proposal	
b.1. Presentation aided by audiovisual material	
b.2. Over-all personality	
b.3. Self-confidence	
b.4. Enthusiasm	

14. The Board of Judges reserves the right to modify the criteria and establish additional ground rules if they deem necessary and appropriate in the conduct of the Research Congress.





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## 2020 NATIONAL SCIENCE AND MATHEMATICS POWER QUIZ AND RESEARCH CONGRESS

### Schedule of Activities

TIME	ACTIVITY	VENUE
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#### Day 1 Friday, January 17, 2020

8:00-10:00	Registration	GT-Toyota Asian Center Auditorium
10:00-12:00	Opening Ceremony	
12:00-13:00	Lunch	
13:00-14:00	Setting Up Displays for Science Investigatory Projects	
14:00-17:00	Preliminary Assessment of Science Investigatory Projects	

#### Day 2 Saturday, January 18, 2020

(8:00-17:00)	Oral Defense for Science Investigatory Projects Gr 4-12	UPIS Room 136*
8:00-8:30	Briefing of Contestants for MC-FR	UPIS HS Building
8:30-10:00	Mathematics Compute-Fast Relay (MC-FR) Gr 5-10	
10:00-10:30	AM Snacks	
10:30-11:00	Briefing of Contestants for SBP and GSBP	

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11:00–12:00	<b>Elementary Science Brain Power Quiz (SBP)</b> Gr 4–6	UPIS Room 130*
	<b>General Science Brain Power Quiz (GSBP)</b> Gr 7–12	UPIS Room 131*
12:00–13:00	<i>Lunch</i>	
13:00–13:30	Briefing of Contestants for MBP, NMA, NGH, and BPStat	
13:30–14:30	<b>Elementary Mathematics Brain Power Quiz (MBP)</b> Gr 4–6	UPIS Room 130*
	<b>National Meteorology and Astronomy Quiz (NMA)</b> Gr 7–10	UPIS Room 131*
	<b>National Geology and Hydrology Quiz (NGH)</b> Gr 7–10	UPIS Room 132*
	<b>Brain Power Statistics Quiz (BPStat)</b> Gr 7–10	UPIS Room 132*
14:30–15:00	<i>PM Snacks</i>	
15:00–15:30	Briefing of Contestants for EEP, GMBP, and AIGeo	
15:30–16:30	<b>Earth &amp; Environment Power Quiz (EEP)</b> Gr 4–6	UPIS Room 130*
	<b>General Mathematics Brain Power Quiz (GMBP)</b> Gr 7–12	UPIS Room 131*
	<b>Algebra and Geometry Quiz (AIGeo)</b> Gr 7–12	UPIS Room 132*

Day 3 Sunday, January 18, 2020

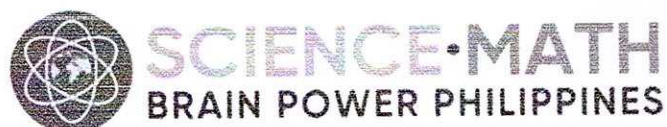
8:00–12:00	<b>Awarding and Closing Ceremony</b>	<b>UPIS Auditorium</b>
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13. The Science Investigatory Projects will be evaluated based on the following criteria:

<b>Scientific Thought and Engineering Goals</b>	<b>30%</b>
Scientific Thought	
a. Brief and clear statement of the problem	
b. Well-defined procedure	
Engineering Goals	
a. Clear and relevant objectives	
b. Economically feasible solutions	
c. Potential contribution to society and practical value	
<b>Creativity, Resourcefulness, and Inventiveness</b>	<b>25%</b>
a. Creative ability in the approach to solve the problem	
b. Innovative design or new idea shown	
c. Intelligence in finding ways and means to undertake the project	
<b>Thoroughness</b>	<b>15%</b>
a. Familiarity with scientific literature in related fields	
b. Awareness of other approaches and theories	
c. Appropriateness of the methodology	
<b>Research Skills</b>	<b>15%</b>
a. Use of laboratory equipment	
b. Appropriate, orderly, and effective presentations of data	
<b>Oral Presentation Skills</b>	<b>15%</b>
a. Clear and thorough discussion of the project	
b. Clarity and conciseness of explanation pertaining to important aspect of the research proposal	
b.1. Presentation aided by audiovisual material	
b.2. Over-all personality	
b.3. Self-confidence	
b.4. Enthusiasm	

14. The Board of Judges reserves the right to modify the criteria and establish additional ground rules if they deem necessary and appropriate in the conduct of the Research Congress.



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## 2020 NATIONAL SCIENCE AND MATHEMATICS POWER QUIZ AND RESEARCH CONGRESS

### Schedule of Activities

TIME	ACTIVITY	VENUE
Day 1 Friday, January 17, 2020		
8:00–10:00	Registration	
10:00–12:00	<b>Opening Ceremony</b>	
12:00–13:00	<i>Lunch</i>	GT-Toyota Asian Center Auditorium
13:00–14:00	Setting Up Displays for Science Investigatory Projects	
14:00–17:00	<b>Preliminary Assessment of Science Investigatory Projects</b>	
Day 2 Saturday, January 18, 2020		
(8:00–17:00)	<b>Oral Defense for Science Investigatory Projects</b> Gr 4–12	UPIS Room 136*
8:00–8:30	Briefing of Contestants for MC-FR	
8:30–10:00	<b>Mathematics Compute-Fast Relay (MC-FR)</b> Gr 5–10	UPIS HS Building
10:00–10:30	<i>AM Snacks</i>	
10:30–11:00	Briefing of Contestants for SBP and GSBP	

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11:00-12:00	<b>Elementary Science Brain Power Quiz (SBP)</b> Gr 4-6	UPIS Room 130*
	<b>General Science Brain Power Quiz (GSBP)</b> Gr 7-12	UPIS Room 131*
12:00-13:00	<i>Lunch</i>	
13:00-13:30	Briefing of Contestants for MBP, NMA, NGH, and BPStat	
13:30-14:30	<b>Elementary Mathematics Brain Power Quiz (MBP)</b> Gr 4-6	UPIS Room 130*
	<b>National Meteorology and Astronomy Quiz (NMA)</b> Gr 7-10	UPIS Room 131*
	<b>National Geology and Hydrology Quiz (NGH)</b> Gr 7-10	UPIS Room 132*
	<b>Brain Power Statistics Quiz (BPStat)</b> Gr 7-10	UPIS Room 132*
14:30-15:00	<i>PM Snacks</i>	
15:00-15:30	Briefing of Contestants for EEP, GMBP, and AIGeo	
15:30-16:30	<b>Earth &amp; Environment Power Quiz (EEP)</b> Gr 4-6	UPIS Room 130*
	<b>General Mathematics Brain Power Quiz (GMBP)</b> Gr 7-12	UPIS Room 131*
	<b>Algebra and Geometry Quiz (AIGeo)</b> Gr 7-12	UPIS Room 132*

Day 3 Sunday, January 18, 2020

8:00-12:00	<b>Awarding and Closing Ceremony</b>	<b>UPIS Auditorium</b>
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