



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



September 11, 2018

Division Memorandum
No. 828 s. 2018

2018 Philippine Nuclear Science Quiz (PNSQ)

**To: Public Schools District Supervisors
Public and Private Junior High School Principals/Heads**

1. Herewith is an Unnumbered Regional Memorandum dated September 10, 2018 with the letter of Dr. Carlo A. Arcilla, Director of the Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI) informing the conduct of the Regional and National Level 2018 Philippine Nuclear Science Quiz (PNRQ) for junior high school students of both public and private schools on September 13, 2018 in Malaybalay, Bukidnon.
2. The PNSQ competition provides an avenue to enhance Filipino students' awareness and appreciation of the Nuclear Science and Technology fields and its potential role in uplifting the quality of living in the country.
3. Details of the above activity are in the enclosures.
4. For information, guidance and compliance.

FOR AND IN THE ABSENCE OF:

WINNIE E. BATOON, Ed. D. *mf*
Officer-in-Charge
Office of the Schools Division Superintendent

Encls: As stated

Reference: Unnumbered Regional Memorandum dated September 10, 2018

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

CURRICULUM

SCIENCE

COMPETITIONS

Ibj: 2018 philippine nuclear science quiz (PNSQ)
11 September, 2018

Melante P. Estacio
MELANTE P. ESTACIO, Ph.D.
OFFICER-IN-CHARGE
OFFICE OF THE ASSISTANT SCHOOLS DIVISION SUPERINTENDENT

DepEd Schools Division Office - Digos City

RELEASED 17342

Date: 11 SEP 2018 Time: 4:59

by: *fw*



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MEMORANUDUM

TO: **SCHOOLS DIVISION SUPERINTENDENTS**

RE: **2018 PHILIPPINE NUCLEAR SCIENCE QUIZ (PNSQ)**

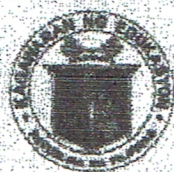
DATE: **September 10, 2018**

1. Attached is a letter from Dr. Carlo A. Arcilla, Director of the Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI)) informing the conduct of the Regional and National Level 2018 Philippine Nuclear Science Quiz (PNSQ) for junior high school students of both public and private schools on September 13, 2018 in Malaybalay, Bukidnon.
2. The PNSQ competition provides an avenue to enhance Filipino students' awareness and appreciation of the nuclear Science and Technology fields and its potential role in uplifting the quality of living in the country.
3. Details of the above activity are in the enclosures.
4. Immediate and wide dissemination of this Memorandum is desired.


ATTY. ALBERTO T. ESCOBARTE, CESO III
Regional Director

ROC6/mlib

RECEIVED
OFFICE OF THE REGIONAL DIRECTOR
SEP 10 2018
9/10/18 Time: 4:27 PM



Republic of the Philippines
Department of Education

DEPARTMENT OF EDUCATION ROXI
RECORDS SECTION

RECEIVED

By: 8-24-18 6387
Date: 8-24-18 Time: 1:41

DepEd Advisory
August 20, 2018

2018 Philippine Nuclear Science Quiz

The Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI) shall conduct the 2018 Philippine Nuclear Science Quiz on December 10-14, 2018. The competition is divided into two levels – (1) Regional Level and (2) National Level.

The Regional Competition will be done by cluster on the following dates:

Location (Testing Center)	Date (in 2018)	Cluster
Roxas City, Capiz	August 30	Region IV-B, VI, VII
Malaybalay, Bukidnon	September 13	Region X, XI, XIII
PNRI, Quezon City	September 25	Region III, NCR, IV-A
Catbalogan, Samar	October 18	Region V, VIII
San Fernando City, La Union	October 24	Region I, II, CAR
Pagadian City, Zamboanga Del Sur	November 7	Region IX, XII, ARMM

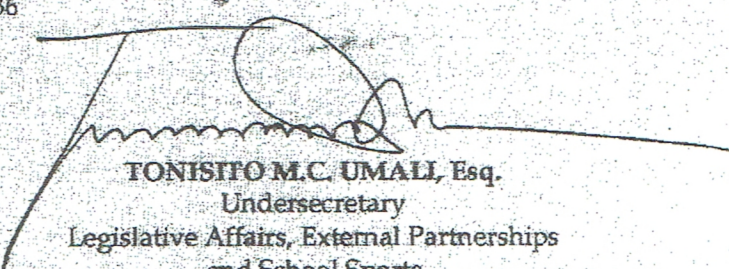
The PNSQ aims to sustain awareness and understanding on nuclear science and technology and its beneficial applications among Junior High School students.

The competition is open to all Junior High School students from public and private secondary schools in the Philippines.

Attached are the Guidelines and Mechanics and the Registration Form.

For more information, you may contact:

Dr. Daisy B. Badilla
Nuclear Training Center
Philippine Nuclear Research Institute
Commonwealth Ave., Diliman Quezon City
Email Address: dbbadilla@pnri.dost.gov.ph
Trunk Line: (632) 929-6011 to 19 loc. 236
Direct Line: (632) 920-8788


TONISITO M.C. UMALI, Esq.
Undersecretary
Legislative Affairs, External Partnerships
and School Sports



Republic of the Philippines
Department of Science and Technology



PHILIPPINE NUCLEAR RESEARCH INSTITUTE

6 August 2018

ALBERTO T. ESCOBARTE
Regional Director
Region XI, Department of Education
F. Torres St., Davao City

Dear Atty. Escobarte:

We are pleased to inform you that the Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI) will spearhead the celebration of the 46th Atomic Energy Week (AEW) on 10-14 December 2018 with the theme "Nuclear Science and Technology for the People: Innovation for Collective Prosperity". One of the highlights of the 46th AEW is the 2018 Philippine Nuclear Science Quiz (PNSQ), a national quiz bee competition for high school students.

PNSQ is a quiz bee competition expected to provide an avenue to develop Filipino students' awareness and appreciation of the nuclear science and technology field and its potential role in uplifting the quality of living in the country. The competition is open to all public and private secondary schools in the Philippines. The competition is divided into two levels – (1) Regional Level and (2) National Level.

The regional competitions are to be done by cluster scheduled as follows in the selected testing centers based on the celebration of the Regional Science and Technology Weeks:

Location (Testing Centers)	Date (in 2018)	Cluster
Roxas City, Capiz	August 30	Region IV-B, VI, VII
Malaybalay, Bukidnon	September 13	Region X, XI, XII
PNRI, Quezon City	September 25	Region III, NCR, IV-A
Catbalogan, Samar	October 18	Region V, VIII
San Fernando City, La Union	October 24	Region I, II, CAR
Pagadian City, Zambo. Del Sur	November 7	Region IX, XII, ARMM

For the teams who will compete in the National Level, a subsidy for travel expenses (airfare, accommodation and lodging) shall be provided by PNRI. The subsidy will cover (1) roundtrip ticket from and to home region and the PNSQ venue and (2) a one-time allowance amounting to five thousand pesos only (PhP 5,000) given upon arrival of the team to the PNSQ venue. Grand Prizes are as follows:

First Prize:	Cash Prize of PhP 50,000.00 + Trophy
Second Prize:	Cash Prize of PhP 40,000.00 + Trophy
Third Prize:	Cash Prize of PhP 30,000.00 + Trophy
Consolation Prize:	PhP 15,000
Consolation Prize:	PhP 15,000

In connection with this, we would like to request your good office to help us disseminate the information about PNSQ to the campuses of the Philippine Science High School System in order to maximize the participation of secondary schools in your region.

The Mechanics and Registration Form may be accessed/downloaded through this link:
<http://tinyurl.com/pnsq2018mechanics>.

We thank you in anticipation of your favorable consideration of our request.

Very truly yours,

CARLO A. ARCILLA, Ph.D.
Director

Address: Commonwealth Avenue, Diliman, Quezon City
PO Box 213 UP Quezon City | PO Box 932 Manila | PO Box 1314 Central, Quezon City
Telephone (632) 929-60-10 to 19 | Fax (632) 920-16-46

The 2018 Philippine Nuclear Science Quiz

Guidelines and Mechanics

I. INTRODUCTION

The Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI) will spearhead the celebration of the 46th Atomic Energy Week (AEW) on **10-14 December 2018**. The celebration will focus on enhancing public awareness on breakthroughs in nuclear research, beneficial uses of nuclear science and technology, advances in radiation technology, and safety in undertaking activities involving radioactive materials. In line with these, PNRI will hold the **2018 Philippine Nuclear Science Quiz (PNSQ)**.

PNSQ is a national quiz bee competition, which provides an avenue to enhance Filipino students' awareness and appreciation of the nuclear science and technology field and its potential role in uplifting the quality of living in the country. The **Regional Level Competition** will be held in Regional Clusters from **August to November 2018** while the **National Level Competition** will be held on **13 December 2018** at the PNRI Compound, Commonwealth Ave., Diliman, Quezon City. This activity is envisioned to be a vehicle in providing an unbiased view on nuclear science and technology.

II. OBJECTIVE

The PNSQ aims to promote and sustain awareness and understanding on nuclear science and technology and its beneficial applications among junior high school students.

III. PARTICIPATION

1. The competition is open to all public and private secondary schools in the Philippines.
2. The competition is divided into two levels – (1) Regional Level and (2) National Level. The top two teams of each region in the Regional Level are qualified to compete in the National Level. Each qualifying team will receive a one-time allowance amounting to five thousand only (Php 5,000), which will only be given upon the arrival of the team at the venue of the National Level Competition. Additionally, a subsidy for travel expenses (economy airfare or bus fare) will be given to teams who will come from provinces outside Greater Manila Area (i.e. Metro Manila, Batangas, Bulacan, Cavite, Laguna and Pampanga).
3. Registration Forms can be requested from the PNSQ Committee or downloaded online through the PNSQ website (<http://pnsq.pnri.dost.gov.ph>) or the PNSQ Facebook page (<https://www.facebook.com/pnriquiz/>). Completed forms should be submitted to the PNSQ Committee on or before the set deadline of registration for the regional cluster in which the participating team belongs (See Clause IV.A.2) through any of the following medium:

Email: pnsq.pnri@gmail.com

With Subject "REGISTRATION FORM_*Region*_*School*"

Mail/Courier:

To: The 2018 PNSQ Committee

Nuclear Training Center

Philippine Nuclear Research Institute

Commonwealth Avenue, Diliman, Quezon City 1101

Facebook Page:

<https://www.facebook.com/pnriquiz/>

Fax:

(02) 920 8788 (Attention: PNSQ Committee)

Personal Submission:

Submit to: Nuclear Training Center

Philippine Nuclear Research Institute

Commonwealth Avenue, Diliman, Quezon City 1101

4. Each participating school shall form a team of two (2) junior high school (Grade 7 – 10) students and an official coach. The team members should be officially enrolled to the school they are representing. The team should be officially endorsed by the School Principal/Head. A school with only one student representative will NOT be accepted in the competition.
5. Participants must be willing (with parents'/guardians' consent) to travel to the PNSQ venue if they qualify to the National Level Competition.

6. In the event that a registered student representative and/or the coach has/have to be replaced by another representative and/or coach for some valid reasons, the participating team should duly inform the PNSQ committee at least one (1) week before the schedule of the competition. The PNSQ committee reserves the right for the approval of such replacement. Once approved, the participating team will be notified by the PNSQ committee of the approval. The replacement will also be announced through the PNSQ Facebook page to inform the other participating teams.
7. A confirmation e-mail will be sent to each team who have successfully registered to PNSQ 2018. The list of successful registrants will be posted at the official PNSQ website (<http://pnsq.onri.dost.gov.ph>) and PNSQ Facebook Page one week after the registration deadline.

IV. CONTEST MECHANICS

A. Regional Level

1. The Regional Level Competition will be held in conjunction with the Regional Science and Technology Fairs of the Department of Science and Technology.
2. The regions of the country will be divided into six (6) **Regional Clusters** for the Regional Level Competition. Each Regional Cluster will have its own deadline of registration, and date and place of examination. The place of the examination for each regional cluster was determined based on the locations of the Regional Science and Technology Fairs. The regional clusters are:

Regional Clusters	Participating Regions	Deadline of Registration	Date of Exam	Place of Exam
1	I, II, CAR	October 12, 2018	October 24, 2018	San Fernando City, La Union
2	III, NCR, IV-A	September 14, 2018	September 25, 2018	Philippine Nuclear Research Institute, Commonwealth Ave., Diliman, Quezon City
3	IV-B, VI, VII	August 22, 2018	August 30, 2018	Roxas City, Capiz
4	V, VIII	October 5, 2018	October 18, 2018	Samar State University, Catbalogan, Samar
5	IX, ARMM, XII	October 26, 2018	November 7, 2018	Pagadian City, Zamboanga del Sur
6	X, XI, XIII	August 31, 2018	September 13, 2018	Bukidnon State University, Malaybalay City, Bukidnon

* Receipt of registration sent through postal mails will be considered up to one (1) week after the deadline in consideration of the slower process involved in using this form of communication.

3. Participating schools should submit their completed registration form on or before the deadline of registration for the regional cluster they belong to. Incomplete registration will nullify the participation of the school. No walk-in participant would be allowed during the conduct of the exam at any regional cluster.
4. The Regional Level Competition will be a written examination, with both team members answering the questions together. The questions will cover various topics on nuclear science and technology which includes radiation and radioactivity, atomic and nuclear structure, nuclear and radiation technology, nuclear power, radiation protection, nuclear safety and regulations, and current nuclear-related events.
5. The written examination will be composed of fifty (50) multiple-choice questions to be answered within one (1) hour. Not following instructions will invalidate the part of the examination where the violation occurred. The use of calculators will be allowed during the examination.
6. Although the exam is taken in regional clusters, the top two (2) scorers in the written examination for each region will still be declared as qualifiers for the National Level Competition. In case of a tie in the 2nd slot for a region, tie-breaking questions will be asked until one of the teams gains advantage over the other team/s. It is expected that there will be a total of 34 teams (i.e. 17 regions; 2 team winners each) who will be competing in the National Level.

7. In the event the 34 teams will not be completed, wildcard participant/s will be selected by pooling and ranking the scores of the teams from all regions who did not qualify for the National Level. At most three (3) wildcard participants shall be selected from the top scorers.
8. The final list of qualifiers for the National Level shall be notified via email and their names posted through the PNSQ website (<http://pnsq.pnri.dost.gov.ph>) and PNSQ Facebook Page on **November 16, 2018**. Qualifiers should confirm their participation to the National Level within **5 DAYS** from the receipt of notification. Otherwise, their slot/s will be given to the next in rank for their region or as in **Clause IV.A.7** in case there are no remaining participating school for that particular region.
9. If the number of qualifying teams for the national level is only fifteen (15) or below, additional wildcard participant/s will be selected from the pooled team scores until the number of qualifying teams becomes sixteen (16) teams.

B. National Level

1. The National Level competition shall be held on **December 13, 2018** at the PNRI compound in Diliman Quezon City. A total of 34 teams are expected to compete at this level.
2. The questions in PNSQ will cover various topics on nuclear science and technology which includes radiation and radioactivity, atomic and nuclear structure, nuclear and radiation technology, nuclear power, radiation protection, nuclear safety and regulations, and current nuclear-related events. The use of calculators will be allowed during the competition.
3. The National Level competition is divided into three rounds – (1) elimination round (2) semi-final round and (3) final round. A "power up" stage shall be held prior to the final round. The "power up" stage is designed to prepare competing teams in the playing field of the final round.

Elimination Round

1. All national level-qualifying teams shall take a 50-item written exam and a practical exam in the Elimination round. Teams will answer the written exam within an hour only. The mechanics for the practical exam will be announced AFTER the written exam.
2. Scores for the written and practical exams will be pooled and the top fifteen (15) teams will advance to the Semi Final Round.
3. In case of a tie for the last slot, a tie-breaker round will be played where the contending teams will be asked randomly-selected questions worth one point each until the tie is broken.

Semi-Final Round

1. The Semi-final Round is a staged quiz show with a quizmaster reading the questions. Each team shall be provided with boards where they are to write their answers.
2. The quizmaster will read questions covering the same topics as in **Clause IV.B.2**. Before reading the question, the quizmaster will specify the type of question (multiple choice, identification or computation), the allotted time for answering, and the corresponding points to be earned by the team.
3. A total of thirty (30) questions categorized as Easy, Average and Difficult, shall be asked in this round. Each question will be read twice.
4. Correct answers will merit one (1) point, three (3) points and five (5) points for Easy, Average and Difficult questions respectively. Incorrect answer shall not merit points nor deductions.
5. The teams shall display their answers only at the cue of the quizmaster.
6. The results of the Quiz will be tabulated on a scoreboard and on a score sheet. The five (5) teams with the highest accumulated scores will advance into the final round.
7. In case of a tie for the last slot, a tie-breaker round will be played where the contending teams will be asked randomly-selected questions worth one point each until the tie is broken.
8. A challenge to a question should be addressed to the board of judges only. The challenge should be given **before** the next question is asked. The judges will confer and decide whether the challenge is valid or not. The judges' decision is final and irrevocable. All other questions/challenge raised after the next question was asked will NOT be entertained.

Power Up Stage

1. In preparation for the Final Round, the top five (5) teams from the Semi final round shall undergo a "power up" stage. In this stage, teams answer a set of questions to get "Power Ups".
2. There will be two kinds of power-ups – (1) **Jump** and (2) **Fortitude**
A "Jump" power up allows a team to advance two steps in the final round while a "Fortitude" power up prevents the team from going back one step in the event that their answer in one of the questions in the final round is incorrect.
3. The style of this stage will be similar to the Semi-Final Round with the quizmaster reading the questions and the teams answering on boards.
4. The first team to get three (3) correct answers will be awarded one Jump power-up and one Fortitude power-up. The next team to get three (3) correct answers will be awarded one power up of their choice (Jump or Fortitude). In case of a tie, tie-breaking questions will be asked until a winner is determined.
5. A challenge to a question should be addressed to the board of judges only. The challenge should be given **before** the next question is asked. The judges will confer and decide whether the challenge is valid or not. The judges' decision is final and irrevocable. All other questions/challenge raised after the next question was asked will NOT be entertained.

Final Round

1. The Final Round is composed of a playing field with ten (10) steps for each of the five teams.
2. All teams shall stand at the starting line at the beginning of this round.
3. A total of 25 questions shall be asked in this round. A quiz master shall read the questions twice and teams write their answers on boards provided.
4. Each correct answer will allow a team to take one step forward. A wrong answer however, will cause a team to take one step back except for those who are still at the starting point. A team can choose not to give an answer for which instance, they will remain in place.
5. A team possessing a power-up may use it, as applicable, until the **7th step**. No team can use any power-up after the 7th step.
6. The first team to reach their last step (10th) will be declared the winner. The next two teams nearest to the finish line will take second and third place.
7. In the event that no team has reached the 10th step after 25 questions, the team nearest to the finish line will be declared the winner. The next nearest will be declared second and the third nearest will be declared third place.
8. In case of a tie in any of the top five (5) slots, tie-breaker questions will be asked where the contending teams will be asked randomly-selected questions worth one step each until the tie is broken.
9. A challenge to a question should be addressed to the board of judges only. The challenge should be given **before** the next question is asked. The judges will confer and decide whether the challenge is valid or not. The judges' decision is final and irrevocable. All other questions/challenge raised after the next question was asked will NOT be entertained.

V. PRIZES

1. All participating teams in the Regional and National Levels shall receive a certificate of participation. Certificate of appearance will also be given upon request.
2. All winners in the Regional and National Levels shall receive a certificate of recognition.
3. Each member of the teams who qualifies to the National Level Competition (one coach and two students) shall receive a PNSQ 2018 T-Shirt.
4. Grand Prizes for PNSQ winners are as follows:
 - First Prize: Cash Prize of PhP 50,000.00 + Trophy
 - Second Prize: Cash Prize of PhP 40,000.00 + Trophy
 - Third Prize: Cash Prize of PhP 30,000.00 + Trophy
 - Consolation Prize: PhP 15,000.00
 - Consolation Prize: PhP 15,000.00

VI. OTHER MATTERS

1. Like and follow the PNSQ official Facebook page at <http://pnsq.pnri.dost.gov.ph> for important announcements concerning the quiz.
2. Participating schools are encouraged to stay in the afternoon during the Regional Level Competitions for the PNRI Technical Sessions wherein select PNRI scientists will present their accomplishments and studies on the peaceful and useful applications of nuclear science and technology.
3. Food and drinks will be provided for all official participants and coaches during the conduct of the 2018 PNSQ Regional and National Level Competitions.
4. Participants should arrive at the specified quiz venue at least one (1) hour before the competition schedule. This time will be allotted for registration and group picture taking before the start of the competition. Participants should present their respective school I.D.s during the registration. For the Regional Level, in the event that the participating school arrived late, they will still be allowed to take the examination within the remaining time.
5. Taking photos or videos during the competition is strictly prohibited. An official photographer will be present during the event.
6. The officials of the quiz shall have the right to disqualify any team who violates any item of the PNSQ Guidelines and Mechanics.
7. The results of the quiz will be final and not appealable.
8. For inquiries please email pnsq.pnri@gmail.com or contact:

Dr. Daisy B. Badilla
Nuclear Training Center
Philippine Nuclear Research Institute
Commonwealth Ave., Diliman, QC
Email: dbbadilla@pnri.dost.gov.ph
Trunk Line: (632) 929-6011 to 19 loc. 236
Direct Line: (632) 920-8788



2018 Philippine Nuclear Science Quiz

Registration Form

School Details

Name of School: _____

School Address: _____

Region: _____ ☐ Public High School ☐ Private High School

Telephone No.: _____ Fax No.: _____

School Representative Details

Name of Coach/Adviser: _____

Email Address of Coach/Adviser: _____

Telephone Number of Coach/Adviser: _____

Cellphone Number of Coach/Adviser: _____

Name of 1st student representative: _____

Year Level: _____ Age: _____ Sex: _____

Name of 2nd student representative: _____

Year Level: _____ Age: _____ Sex: _____

Certification and Endorsement

This is to certify that the students listed above are bona fide students currently enrolled in our school. This is to further endorse their participation as representatives of our school to the 2018 Philippine Nuclear Science Quiz.

School Principal/ Head
(Signature over printed name)

Date



PNSQ 2018

PHILIPPINE NUCLEAR SCIENCE QUIZ

Parental Consent/ Waiver for 1st student representative

This is to certify that I am giving my full consent for my son/ daughter, _____, to travel to Metro Manila in case their team qualifies to the National Level Competition of the 2018 Philippine Nuclear Science Quiz. I further acknowledge that that PNRI and the PNSQ committee will not be held liable for any untoward incident that may occur in connection with my son/daughter's participation to the 2018 PNSQ.

Name of Parent/ Guardian
(Signature over printed name)

Date

Parental Consent/ Waiver for 2nd student representative

This is to certify that I am giving my full consent for my son/ daughter, _____, to travel to Metro Manila in case their team qualifies to the National Level Competition of the 2018 Philippine Nuclear Science Quiz. I further acknowledge that that PNRI and the PNSQ committee will not be held liable for any untoward incident that may occur in connection with my son/daughter's participation to the 2018 PNSQ.

Name of Parent/ Guardian
(Signature over printed name)

Date