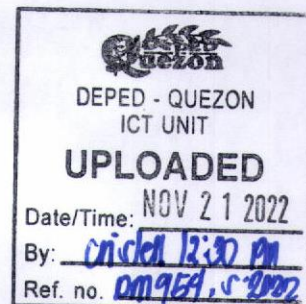




Republic of the Philippines
Department of Education
Region IV-A
SCHOOLS DIVISION OF QUEZON PROVINCE



11 November 2022

DIVISION MEMORANDUM

DM No. 954, s. 2022

**TEACHING SCIENCE BEYOND CLASSROOM THROUGH PHILIPPINE SCIENCE
CENTRUM VIDEO-BASED EXHIBITS AND LAB IN A BOX**

To: Assistant Schools Division Superintendent
Public Schools District Supervisors
Elementary and Secondary School Heads of Polillo, Alabat and Quezon
DOST Mini Science Centrum Coordinators
All Other Concerned

1. The SDO Quezon in partnership with the Department of Science and Technology Region IV A CALABARZON and the Philippine Foundation for Science and Technology will hold a teacher training workshop entitled "Teaching Science Beyond Classroom through Philippine Science Centrum Video-Based Exhibits and Lab in a Box". The Philippine Science Centrum videos, teacher's guide, Exhibit Manual, and Lab in a box are instructional intervention/enhancement materials that can help teachers in their learning recovery program.
2. The training will be held on December 17, 2022 at Quezon Science High School. The participants are expected to arrive on December 16, 2022 (Day 0) at 4:30PM and Day 2 will be the travel time going back to their respective stations
3. Participants to the training are Grade 5 to 12 science teachers, 30 from Polillo and 30 from Quezon - Alabat. They must have less than 10 years teaching experience. Please refer to the attached list of participants.

DEPEDQUEZON-TM-SDS-04-009-003



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4. A 2- day service credit will be given to the participants for their active participation in the activity.
5. Food expenses of the participants for December 17, 2022 (AM & PM Snacks and Lunch) will be shouldered by the PFST while the travel expenses relative to this training are chargeable to school MOOE/local funds subject to the usual COA auditing rules and regulations.
6. Immediate dissemination of this Memorandum is desired.

ELIAS A. ALICAYA JR. EdD
Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent

cid-ims/ceao/11/11/22

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Enclosure No.1 to DM No. 954 s. 2022

**TEACHING SCIENCE BEYOND CLASSROOM THROUGH PHILIPPINE SCIENCE
CENTRUM VIDEO-BASED EXHIBITS AND LAB IN A BOX
December 17, 2022**

Technical Working Group

- | | |
|---------------------------------------|------------------------------|
| 1. Carmela Ezcel A. Orogo | Education Program Supervisor |
| 2. Peter Andrew G. Regencis EdD., PhD | Principal I - QSHS |
| 3. Avelino R. Bucad Jr. | Head Teacher – QSHS |
| 4. Russel T. Soltura PhD | Master Teacher II – QSHS |

PARTICIPANTS

Name of Participants	School	Grade level	District
1. Lito L. Tapia	Kalubakis ES	Grade 5	Polillo
2. Desiree J. Curia	Binibitanan ES	Grade 5	Polillo
3. Victor B. Zafe	Salipsip Es	Grade 5	Polillo
4. John Felmarc T. Moises	Pamatdanan	Grade 5	Polillo
5. Rhiena A. Beltran	Quezon CES	Grade 5	Quezon
6. Ryan O. Olino	Guinhawa ES	Grade 5	Quezon
7. Syron Sasis	Alabat CES	Grade 5	Alabat
8. Nerissa M. Oliveros	Alabat CES	Grade 5	Alabat
9. Jhieneva A. Caparos	Sibulan ES	Grade 6	Polillo
10. Wendell B. Dineros	Bigyan ES	Grade 6	Polillo
11. Jonel V. Leynes	Canicanian ES	Grade 6	Polillo
12. Thyrek A. Buban	Taluong ES	Grade 6	Polillo
13. Joven Orijuela	Gumubat ES	Grade 6	Quezon
14. Maribel A. Alcantara	Quezon CES	Grade 6	Quezon
15. Minerva M. Asis	Alabat CES	Grade 6	Alabat
16. Nelia A. Arandela	Alabat CES	Grade 6	Alabat
17. Ruby Rissa A. Ustare	Polillo NHS	Grade 7	Polillo
18. Ramil Manlogon	Polillo NHS	Grade 7	Polillo
19. Maria Ellen R. Tena	Sabang NHS	Grade 7	Polillo
20. Marvie L. Santillan	Balesin IS	Grade 7	Polillo
21. Gretchen B. Potian	Alabat Island NHS	Grade 7	Alabat
22. Rowen M. Ursolino	Alabat Island NHS	Grade 7	Alabat
23. Cyril R. Valderama	Cesar C. Tan MNHS	Grade 7	Quezon

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24. Mary Joy A. Astejada	Evaristo R. Macalintal MNHS	Grade 7	Quezon
25. Glenn R. Monterico	Polillo NHS	Grade 8	Polillo
26. Jerrybert E. Azores	Polillo NHS	Grade 8	Polillo
27. Adrian S. Correces	Sabang NHS	Grade 8	Polillo
28. Roseviminda R. Combalicer	Taluong NHS	Grade 8	Polillo
29. Ma. Cecilie L. Diamante	Alabat INHS	Grade 8	Alabat
30. Resiel Alcratis	Alabat INHS	Grade 8	Alabat
31. May Gen G. Sardia	Pablo D. Maningas MMNHS	Grade 8	Quezon
32. Allan Limbo	Evaristo R. Maclaintal MNHS	Grade 8	Quezon
33. Kathlene Mae R. Sapio	Polillo NHS	Grade 9	Polillo
34. Leomel T. Avellaneda	Polillo NHS	Grade 9	Polillo
35. Joy C. Languido	Taluong NHS	Grade 9	Polillo
36. Alona A. Azul	Polillo NHS	Grade 9	Polillo
37. Miraflor P. Penaojas	Alabat Island NHS	Grade 9	Alabat
38. Joanne J. Verdaguer	Alabat Island NHS	Grade 9	Alabat
39. Ma. Cristina O. Aquino	Cesar C. Tan MNHS	Grade 9	Quezon
40. KC C. Matriz	Joel B. Arquiza NHS	Grade 9	Quezon
41. Alyssa Rey E. Talabong	Polillo NHS	Grade 10	Polillo
42. Dennis Bulilan	Polillo NHS	Grade 10	Polillo
43. Jeany Rose C. Abetria	Taluong NHS	Grade 10	Polillo
44. Maricone F. Falculan	Polillo NHS Ext	Grade 10	Polillo
45. Leny L. Arienza	Alabat Island NHS	Grade 10	Alabat
46. Reyna E. Alpay	Alabat Island NHS	Grade 10	Alabat
47. Myra L. Soriano	Cesar C. Tan MNHS	Grade 10	Quezon
48. Gina B. Baretto	Evaristo R. Maclaintal MNHS	Grade 10	Quezon
49. Nympha P. Santos	Polillo NHS	Grade 11	Polillo
50. Ronald A. Resplandor	Taluong NHS	Grade 11	Polillo
51. Cherina D. Aguila	Sabang NHS	Grade 11	Polillo
52. Keanna Jeffrey d. Discarga	Cesar C. Tan MNHS	Grade 11	Quezon
53. Reynaldo A. Dionido Jr.	Alabat Island NHS	Grade 11	Alabat
54. Ellezer Formagones	Cesar C. Tan MNHS	Grade 11	Quezon
55. Mylene G. Mirabite	Cesar C. Tan MNHS	Grade 12	Quezon

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56. Unique Petit Abastillas	Alabat Island NHS	Grade 12	Alabat
57. Melissa B. Martinez	Cesar C. Tan MNHS	Grade 12	Quezon
58. Melanie D. Gonzales	Polillo NHS	Grade 12	Polillo
59. Anacleto D. Azaula	Polillo NHS	Grade 12	Polillo
60. Lorena C. Inolpe	Taluong NHS	Grade 12	Polillo

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PHILIPPINE FOUNDATION FOR SCIENCE AND TECHNOLOGY

Manila Bay Spinning Mills,
Compound, 107 Lopez Jaena St.,
Tañong, Marikina City
(+63) 917 526 6356
info@pfst.org.ph
sciencecentrum90@gmail.com
www.pfst.org.ph

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28 October 2022

Dr. Elias A. Alicaya Jr.
OIC, School Division Supervisor
DepEd Division of Quezon Province
Lucena City

THRU: Ms. Carmen Ezel A. Orogo
Educational Program Supervisor in Science

Dear Dr. Alicaya:

Greetings from the Philippine Foundation for Science and Technology (PFST)!

This has reference to the DOST-CALABARZON's sponsorship.

As a follow up to our letter dated August 17, 2022, we would like to finalize the details of the teacher's training component, the **Teaching Science Beyond Classroom through Philippine Science Centrum Video- Based Exhibits and Lab-in-A-Box** with Polillio and Alabat municipalities as beneficiaries.

- Science teachers in grade 5-12 of Polillio (30 teachers) and Alabat, Quezon (30 teachers)
- Science teachers with less than 10 years of teaching experience

As part of the sponsorship, the teacher training participants will receive a Learning Resource kit containing USB Flash drive with Philippine Science Centrum videos, teacher's guide, PSC Exhibit Manual and Lab in a box with science experiments that can help teachers in their learning recovery program after the pandemic. Meals (2 snacks + Lunch) and certificate of participation will be provided however we hope that the participants' transportation can be charged to school's MOOE.

Enclosed is the copy of the Teacher's Training design along with the schedule of activities.

We appreciate receiving the list of participants: name, school, email address and contact number on or before December 12, 2022.

Meanwhile, may we also follow up the schedules for our 2 other activities - installation and launching of Mobile Science Centrum in Polillio and Quezon, Quezon and the Science Camp for students.

Thank you very much and looking forward to a successful implementation of this teacher's training project for DepEd-Quezon.

More power!

Very truly yours,


MAY M. PAGSINOHIN
Executive Director



Teaching Science Beyond Classroom through Philippine Science Centrum Video- Based Exhibits and Lab-in-A-Box (Grade 5-12)

Overview:

The training program provides an opportunity for teachers to use the PFST Teaching-Learning Resource (TLR) consisting of Videos of science exhibits, Teacher's Guide for Exhibit-based Lessons and Lab Kit. These materials have been developed around specific content standards and competencies in the DepEd K to 12 science curriculum. The experience gained in the training will hopefully be applied to teachers' own classroom setting as they allocate time blocks for integrating them in appropriate lessons and attaining the objectives they set for students.

Objective:

To use materials and strategies that can help enhance critical thinking processes (e.g. analyzing, applying, synthesizing), conceptual understanding and valuing (stimulating interest in science).

About the Trainor

Prof. Corazon S. Salumbides got her B.S. Chemistry degree at Centro Escolar University and her Master in Education Administration at San Francisco State University in the US. She taught in some public high schools in Manila before she migrated to the US in the early '70s. In the US, she taught Physics and Chemistry for more than 40 years wherein most of these years were spent at Jefferson Union High School in Daly City, California. She is one of the polymer ambassadors and one of the pioneers in microscale chemistry teaching in the US. She is a three (3) time Balik Scientist Awardee of DOST.

Training Proper:

8:00am-4:00pm

Contact Details:

Philippine Foundation for Science and Technology
sciencecentrum90@gmail.com / 0917-526 6356

Schedule of Activities

TIME	ACTIVITY
7:30- 8:00AM	Registration
8:00- 8:20	Opening Program
8:21-8:30	Introduction of the Resource Trainor (<i>Prof. Cora Salumbides, DOST Balik Scientist & PFST Resident Science Educator</i>)
8:30-9:00	Video and Hands-on Activity: Conductors and Insulators
9:01-9:30	Video and Hands-on Activity: Archimedes'Screw
9:31-10:00	Video and Hands-on Activity: Van de Graaff Generator
BREAK	
10:15 -10:30	Video and Hands-on Activity: Newton's Cradle
10:31-11:00	Video and Hands-on Activity: Anti-Gravity Mirror
11:01-11:30	Video and Hands-on Activity: Air Cannon
11: 35 -12:00	Video and Hands-on Activity: Hexagonal Kaleidoscope
LUNCH BREAK	
1:00-1:15 PM	Video and Hands-on Activity: Cartesian Diver
1:16-1: 40	Video and Hands-on Activity: Uphill Roller
1:41-2:10	Video and Hands-on Activity: Bernoulli Blower
2:11-2:30	HOMOMICH Activity: How many drops can you put on a coin?
2:31-3:00	HOMOMICH Activity: Kitchen Chemicals
BREAK	
3:00-3:15	Video and Hands-on Activity: Reaction Timer
3:16-3:30	Action Plan: Identifying schedule for using TLR in the classroom
3:31-3:45	Wrap-up
3:46-4:00	Submission of Teacher's Training Evaluation Form Closing Ceremonies
END	