



Republic of the Philippines
Department of Education
Region III
SCHOOLS DIVISION OF BULACAN

October 2, 2025

DIVISION MEMORANDUM

No. 440, s. 2025

DIVISION TRAINING ON THE USE OF VARIOUS TOOLS AND INNOVATIVE APPROACHES IN TEACHING MATHEMATICS IN KEY STAGES 3 AND 4

To: Assistant Schools Division Superintendent
Division Chiefs
Education Program Supervisors
Public Schools District Supervisors
Public Elementary and Secondary School Heads
Public Elementary and Secondary School Teachers
All Others Concerned

1. Pursuant to the objective of enhancing the performance of teachers and learners in K-12 Mathematics, this office announces the conduct of Division Training **On The Use Of Various Tools And Innovative Approaches In Teaching Mathematics In Key Stages 3 And 4**, scheduled on October 21-23, 2025 at TBA.
2. This training aims to enhance the teaching competencies of mathematics teachers by equipping them with effective strategies, modern tools, and innovative pedagogical approaches. More specifically, it aims to
 - 2.1 Enhance Mathematics teachers' understanding of the importance of integrating innovative teaching strategies to improve students' problem-solving and critical-thinking skills.
 - 2.2 Equip teachers with the skills to effectively use innovative approaches and technology in teaching Mathematics.
 - 2.3 Introduce research-based teaching strategies to help address students' learning difficulties in problem-solving.
 - 2.4 Promote and encourage a collaborative learning environment where educators can share best practices, discuss challenges, and support one another in their professional growth.
3. The participants in this training are 99 JHS and 37 SHS Mathematics Teachers, 1- EPS, 1- PSDS, 6 Resource Speakers, 5 Members of the Technical Working Group and 1 Medical Team.



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4. Enclosures No. 1 and 2 contain the training matrix, the list of the resource speakers, the numbers of the work committees for reference, and the Program of Activities. Enclosure No. 3 is the list of participants.
5. In compliance with the DepEd Order No. 9 s. 2005 entitled Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith, school heads shall be assign teachers to classes handled by the teachers-participants to prevent disruption of instructional time.
6. All expenses to be incurred in the conduct of this training shall be charged against the DIVISION INSET Fund, while the transportation allowance of the participants shall be charged to local school funds, subject to usual accounting and auditing rules and regulations.
7. There must be an online/In-Person meeting with the select Trainers and TWGs on October 20, 2025, at 3:00 PM
8. This memorandum also serves as **travel authority** for the participants, resource speakers and the members of the technical working group.
9. Immediate and wide dissemination of the Memorandum is enjoined.


CECILIA E. VALDERAMA, PHD

Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent





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Enclosure No. 1 of Division Memorandum No. 490, s. 2025

A. TRAINING MATRIX

**DIVISION TRAINING ON THE USE OF VARIOUS TOOLS AND
INNOVATIVE APPROACHES IN TEACHING MATHEMATICS IN KEY
STAGES 3 AND 4**

October 21-23, 2025

Program Activities

TIME	DAY 1 (Oct 22)	DAY 2 (Oct 23)	DAY 3 (Oct 24)
7:00-8:00	Arrival / Registration		
8:00-9:00	Opening Program Pretest <i>(Program Management Team)</i>	Management of Learning (MOL) Reflections and Insights: Building on Day 1 Learnings <i>(Program Management Team)</i>	Management of Learning (MOL) Day 2 Recap and Preparing for Practical Application <i>(Program Management Team)</i>
9:00-10:00	Fostering Critical Thinking: Techniques for Engaging and Challenging Students in Math <i>(RP: Ma. Khristina R. San Gabriel)</i>	Creating Real-World Math Problem Scenarios: Practical Approaches for Engaging Students <i>(RP: Alvin F. Bartolome)</i>	From Classroom to Assessment: Bridging the Gap Between Teaching and NAT/PISA Success in Math <i>(RP: Glenn Erick Catiis)</i>
10:00-11:00	Designing Problem-Based Learning (PBL) Activities to Boost Critical Thinking in Math <i>(RP: Glenn Erick Catiis)</i>	Developing a Growth Mindset: Encouraging Resilience and Problem-Solving Abilities in Math <i>(RP: Ramona G. Movilla)</i>	Engaging Students with Complex Math Problems: Techniques for Advanced Problem-Solving <i>(RP: Lysel P. Matiling)</i>
11:00-12:00			
12:00- 1:00	L U N C H		
1:00- 2:00	The Art of Questioning: Techniques to Stimulate Deeper Thinking in Math Students <i>(RP: Lysel P. Matiling)</i>	Navigating NAT and PISA: Preparing Students with Effective Math Test Strategies <i>(RP: Cynthia V. Aguinaldo Phd)</i>	Workshop and Demonstration Teaching <i>(Resource Person in Charge)</i>
2:00-3:00			
3:00- 4:00	Interactive Technologies for Critical Thinking in Math: Tools and Applications in the Classroom <i>(RP: Alvin F. Bartolome)</i>	Preparing for PISA: Strategies to Strengthen Analytical and Critical Thinking Skills in Math <i>(RP: Ma. Khristina R. San Gabriel)</i>	Posttest <i>(Program Management Team)</i>
4:00- 5:00			Closing Program <i>(Program Management Team)</i>





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Enclosure No. 2 of Division Memorandum No. 490, s. 2025

Resource Persons/ Technical Working Group

NAME	POSITION	SCHOOL
RESOURCE PERSONS		
CYNTHIA V. AGUINALDO, PhD	HT-IV	FCLNHS
RAMONA G. MOVILLA	MT-II	AFGBMTS
MA. KRISTINA R. SAN GABRIEL	MT-I	LNHS
GLENN ERICK CATIIS	MT-I	BNHHS
LYSEL P. MATILING	MT-I	CPNHS
ALVIN F. BARTOLOME	MT-I	SMNHS
TECHNICAL WORKING GROUP		
EVELYN R. SICAT	HT-VI	PBHNHS
RHEA S. POLICARPIO	HT-III	EVMHS
MICHAEL C. SAMSON	HT-III	Garlang ES San Ildefonso North District
EMMANUEL SM. ENRIQUEZ	T-III	CFGNHS
JOSEPH PAGTALUNAN	T-III	GNVHS





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Enclosure No. 3 to Division Memorandum No. 490, s. 2025

LIST OF PARTICIPANTS

JUNIOR HIGH SCHOOL

No.	NAME OF SCHOOL	NAME OF PARTICIPANTS	POSITION
1	Bajet Castillo High School	BEVERLY B. CORONEL	TEACHER I
2	Calumpit National High School	DANICA M. CASTELO	TEACHER I
3	Caniogan High School	ANGELICA DV. MARA	TEACHER II
4	Dampol 2nd National High School	CHESTER MARIE V. BALAGTAS	TEACHER I
5	Dona Candelaria Meneses Duque National High School	ANNA THERESA C. TEODORO	TEACHER II
6	Dulong Malabon Integrated School	ANGELICA R. FLORES	TEACHER I
7	Engr. Virgilio V. Dionisio memorial High School	EDERLIZA B. PINEDA	TEACHER III
8	Frances National High School	JOCELYN A. LOSAURO	TEACHER III
9	Gen. Gregorio del Pilar Integrated School	CHRISTINE M. CRISTOBAL	TEACHER III
10	Iba National High School	ADAM BILL J. CARPIO	TEACHER I
11	Inaon Integrated School	JANICE G. MAG-ISA	TEACHER III
12	Kapitangan National High School	JOSEPH C. INOCENCIO	TEACHER III
13	Pinalagdan High School	JOMA L. BULURAN	TEACHER III
14	Ramona Trillana National High School	JULIUS JONATHAN R. TOLENTINO	TEACHER I
15	Romeo Acuña Santos Memorial High School	MARILOU O. HERNAEZ	TEACHER I
16	San Francisco Xavier High School	MARIA CRISTINA DIONISIO	TEACHER III
17	San Miguel-Meysulao High School	MAREN MAY C DIMERIN	TEACHER II
18	San Pedro National High School	RACHELLE B. CRISOSTOMO	TEACHER III
19	San Roque National High School	JOHNNY B. GRAFE	TEACHER III
20	Sta. Cruz National High School	MARVIN C. JAVIER	TEACHER II
21	Sta. Lucia National High School	SONNY BOY VILLAMOR	TEACHER I
22	Sta. Monica National High School	CHERYL B. DELA ROSA	TEACHER III
23	Sta. Peregrina High School	EMMANUEL M. DELA CRUZ	TEACHER I
24	Talipit National High School	KAREN ROSE D. VILLENA	MT1
25	Alexis G. Santos National High School	RESTER REY E. VILLARAMA	TEACHER III





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26	Cambaog National High School	CAMILLE JANE M. ENRIQUEZ	TEACHER I
27	Catacte Integrated School	BRIAN JOSEPH T. DE GUZMAN	TEACHER III
28	Dr. Pablito V. Mendoza SR. HS	JANEL A. BANGCAYA	TEACHER I
29	Aguinaldo J. Santos National High School	BUENAFE S. DE GUZMAN	TEACHER I
30	Dampol 1st National High School	FELIX M. MORALDE	TEACHER I
31	Dr. Felipe De Jesus National High School	VILMA B. SANTOS	TEACHER III
32	Bulihan High School	SALLY B. PEROCHE	TEACHER III
33	Banga High School	EDNA C. TANTE	TEACHER III
34	Jaime J. Vistan High School	ELSA T. HILARIO	TEACHER III
35	Jose J. Mariano Memorial High School	MACY L. HERNANDEZ	TEACHER III
36	Laura De Leon Halili High School	ENRICO S. EUSEBIO	TEACHER I
37	Sapang Bulac High School	JOHN WILSON L. LAMORENA	TEACHER II
38	Talbak High School	JACKLYN R. MEMPIN	TEACHER I
39	Esteban Paulino High School	JENALYN P. PEREY	TEACHER I
40	Kalayakan High School	KEIL S. AGUSTIN	TEACHER I
41	Pinag-anakan Integrated School	BRIAN L. PERALTA	TEACHER I
42	Calawitan National High School	MICHAELA V. VENTURINA	TEACHER I
43	Akle High School	NANCY A. CABANA	TEACHER I
44	San Ildefonso National High School	ROWENA V. VENTURINA	TEACHER III
45	Gabihan High School	JENELEE B. DEL CARMEN	TEACHER I
46	Upig High School	MARVIN L. SANTIAGO	TEACHER III
47	Sta. Catalina Bata National High School	JOAN GRACE C. GUMASING	TEACHER I
48	San Miguel National High School	HAZEL M. MENDOZA	TEACHER I
49	Partida National High School	JOANA MARIE R. HERNANDEZ	TEACHER I
50	John J. Russell Memorial High School	JOVELYN E. BETCO	TEACHER III
51	Vedasto R. Santiago High School	CHRISTINE T. DANTIS PHD	MASTER TEACHER I
52	Emilia Perez Ligon High School (Maligaya High School)	PRINCESS MARGARET T. VELASCO	TEACHER I
53	Carlos F. Gonzales High School	MA.RUDETHA C. VALMADRID	TEACHER I
54	San Rafael National Trade School	PAULINE CARLA DV. JOAQUIN	TEACHER II
55	Maronquillo National High School	ROSE ANN S. MACAWILI	TEACHER III





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56	Salapungan National High School	EL MARIE S. CALARA	TEACHER I
57	Lydia D. Villangca Trade School	DANILETH V. SUMAWAY	TEACHER I
58	AFG Bernardino Memorial Trade School	LENILYN B. DE GUZMAN	TEACHER III
59	Heritage Homes Integrated School	ANNA LORAIN T. RAMOS	TEACHER I
60	Marilao Central Integrated School	MJ G. SILVA	TEACHER I
61	Obando National High School	GEARARD S. BAUTISTA	TEACHER I
62	Obando School of Fisheries	JOVELYN D. GABRIEL	TEACHER III
63	Prenza National High School	WILSON D. DELA CRUZ	TEACHER I
64	Balagtas National Agricultural High School - Main Campus	JAY C. LAGMAN	TEACHER III
65	Balagtas National Agricultural High School - Annex	MIA FLOR S. ESPEJO	TEACHER I
66	Gat Francisco Balagtas High School	RAYMUNDO C. BAUTISTA	TEACHER I
67	Batia High School	BEVERLY S. DEL ROSARIO	TEACHER I
68	Lolombay National High School	GRACIE B. TAPING	TEACHER II
69	Taal High School	RONNIE M. TACORDA	TEACHER III
70	Illuminada Roxas Mendoza Memorial High School	RAVEN REY E. VILLARAMA	TEACHER III
71	Felizardo C. Lipana National High School	MARICEL P. ABLAZA	TEACHER III
72	Guiguinto National Vocational High School - Main	JESEL T. TAYAO	TEACHER I
73	Guiguinto National Vocational High School - Annex	ERNA CAMILLE P. DOMINGO	TEACHER I
74	Tiaong National High School	MARY V. HAY	SST I
75	Bunsuran National High School	JUANITA C. DOMINGO	MT2
76	Masagana High School	ROY A. DOMINGO	TEACHER III
77	Virginia Ramirez-Cruz National High School	MARY GRACE D. PUNZALAN	TEACHER III
78	Pinagkuartelan Integrated School	LALAIN O. RINGAD	TEACHER I
79	Mapulang Lupa High School	RENCY MICAELLA G. CRISTOBAL	TEACHER I
80	Angat National High School	MARCELITO D. CRUZ	TEACHER I
81	Angel M. Del Rosario High School	ELIZABETH M. PASCUAL	TEACHER III
82	Binagbag National High School	RAYMOND T. DE GUZMAN	TEACHER I
83	Cay Pombo National High School	ABIGAIL S. ORELLANA	TEACHER II
84	FVR National High School	LOUCELLE M. BARRAMEDA	TEACHER I





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85	Julian B. Sumbillo High School	CRISTINA P. CASTILLO	TEACHER III
86	Matictic Integrated School	JOY D. VELASQUEZ	TEACHER III
87	Minuyan National High School	JOHN MARK DC. VALERIANO	MT 1
88	National Power Corporation High School	GINA Q. LAZARO	T III
89	North Hills Village High School	MIA MADONNA R. VILLAPANA	T-III
90	Norzagaray National High School	ETZEL B. DELOS SANTOS	SST-1
91	Pres. Diosdado P. Macapagal Memorial High School	GINA S. TRINIDAD	TEACHER II
92	Catmon National High School	RAQUEL ANNE N. CABUHAT	TEACHER III
93	Fortunato F. Halili National Agricultural School	ERICKA JOY G. JAVIER	TEACHER I
94	Fortunato F. Halili National Agricultural School MSAPA Annex	VINCENT B. DE OCAMPO	TEACHER I
95	Parada National High School	JEFFREY N. ESPIRITU	TEACHER III
96	Pulong Buhangin National High School	ALICIA MHEY G. SANTIAGO	TEACHER I
97	San Gabriel National High School	JAY-AR G. FLORES	TEACHER I
98	Sta. Cruz High School	CHRISTIANNE S. MENDOZA	TEACHER III
99	Sta. Maria National High School	GIAN AUBREY A. DELA CRUZ	TEACHER I





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SENIOR HIGH SCHOOL

No.	NAME OF SCHOOL	NAME OF PARTICIPANTS	POSITION
1	Bajet Castillo High School	MARIA PATRICIA JOANNA F. FLORES	TEACHER I
2	AFG Bernardino Memorial Trade School	JOANNA A. CLEMENTE	TEACHER II
3	Prenza National High School	JOHN PAUL S. CRUZ	SST1
4	Balagtas National Agricultural High School - Main Campus	ANA BIANCA F. DE GUZMAN	TEACHER II
5	Pulong Buhangin National High School	PERCIVAL C. ESCRUPOLO	TEACHER III
6	Fortunato F. Halili National Agricultural School	JUDITH DV. MACARIO	TEACHER III
7	San Miguel National High School	PAOLO ROVIC D. SUAREZ	SST 1
8	San Pedro National High School	CRISELDA DELOS SANTOS	TEACHER II
9	Virginia Ramirez-Cruz National High School	PRINCESS JOY G. ARAÑO	TEACHER II
10	San Rafael National Trade School	RYAN CHRISTOPHER M. REYNADO	SST 1
11	Guiguinto National Vocational High School - Main	RAFAEL O. BALOSO	TEACHER I
12	San Ildefonso National High School	MA CRISTINA S. BAGOS	TEACHER II
13	Lydia D. Villangca Trade School	GLADYS SR. VIRI	TEACHER II
14	Calumpit National High School	CLARISSE JOY B. CARPIO	SST 1
15	Catmon National High School	PEDIERICK GC. MENDOZA	TEACHER II
16	Sta. Maria National High School	RUTH N. LLANERA	SST I
17	Dona Candelaria Meneses Duque National High School	LUDY ANN L. CASTILLO	TEACHER II





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18	Frances National High School	CRISTINA JANE E. VILLANUEVA	TEACHER III
19	Iba National High School	MICHELLE L. SANTOS	TEACHER II
20	San Roque National High School	RONJEL DC. TOLENTINO	TEACHER III
21	Talipitip National High School	KIMBERLY CARATING	TEACHER II
22	Alexis G. Santos National High School	SARAH JANE M. DELA CRUZ	TEACHER II
23	Dr. Pablito V. Mendoza SR. HS	ROWELL REMESIS P. GONZALEZ	SST 1
24	Banga High School	ROCHELLE S. TOLENTINO	TEACHER II
25	Jose J. Mariano Memorial High School	ELEONOR E. AGAPITO	TEACHER III
26	Sapang Bulac High School	CYNTHIA M. SANTOS	TEACHER I
27	Felizardo C. Lipana National High School	JOHN GLENN S. ALMARIO	TEACHER II
28	Bunsuran National High School	JACKIE A. DELA PAZ	TEACHER II
29	Parada National High School	JERICHO CHARMAINE G. REYES	TEACHER III
30	Minuyan National High School	RHEA B. MANGAHAS	TEACHER III
31	Julian B. Sumbillo High School	ROWEL A. MILLO	TEACHER II
32	Sta. Cruz High School	MARY JUDELLE M. ARBIS	SST I
33	Sta. Catalina Bata National High School	ALFREDEL P. DARACAN	TEACHER II
34	John J. Russell Memorial High School	LIMUEL A. HERNANDEZ	TEACHER III
35	San Francisco Xavier High School	ANNA RHODORA S. REINGIN	TEACHER II
36	Obando Senior High School	CAMILLE S. LLAMADO	TEACHER II
37	SHS within Luis Gravador Elementary School	JERICO C. NAVAREZ	TEACHER III

