



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



October 14, 2025

DIVISION MEMORANDUM

No. 510, s. 2025

**DIVISION TRAINING ON INTEGRATING AND CUSTOMIZING
MANIPULATIVES FOR DIVERSE KEY STAGE 1 LEARNERS
TOWARDS GREATER ACADEMIC ACHIEVEMENT**

To: Assistant Schools Division Superintendents
CID Chief
Education Program Supervisor in Mathematics
Public Elementary and Secondary School Heads/OIC
Department Heads in Mathematics
All Others Concerned

1. Pursuant to the mandates of improving the teachers' performance as well as the learners in the K-12 Mathematics, this office announces the conduct of Division Training on Integrating and Customizing Manipulatives for Diverse Key Stage 1 Teachers on October 22-24, 2025 at a venue to be announced later.
2. The purpose of this training is to capacitate participants in demonstrating proficiency in designing and delivering lessons that integrate manipulatives, play-based strategies, and practical works in alignment with the Revised K to 12 Curriculum. They will be able to apply these approaches in their daily teaching routines to improve learners' engagement, understanding, and application of mathematical concepts. Specifically, it aims to;
 - 2.1 identify various math manipulatives, play-based tools, and practical resources, and explain their instructional value in developing foundational numeracy skills;
 - 2.2 demonstrate effective strategies for integrating manipulatives, play-based activities, and practical works into classroom instruction for Grades 1-3;
 - 2.3 design lesson exemplars and activity plans that incorporate hands-on learning, ensuring alignment with the Revised K to 12 Curriculum standards and competencies;
 - 2.4 apply play-based and practical works approaches in simulated classroom activities to strengthen connections between abstract concepts and real-life applications; and
 - 2.5 collaborate with peers to produce an activity bank of teaching resources and share best practices for sustaining learner-centered mathematics instruction.



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3. The participants in this training are 99 JHS and 37 SHS Mathematics Teachers, 6 Resource Speakers and members of the Technical Working Group
4. Enclosure No. 1 and 2 contains the training matrix, the list of the resource speakers, the members of the work committees, and Program of Activities while Enclosure No. 3 is the list of participants.
5. The participants are requested to bring their laptops, extension cord, the SMME Package provided by the DepEd and other available manipulatives in the school to be used during the training.
6. In compliance to DepEd Order No. 9 s. 2005 entitled **Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith** through, school heads shall be assign teachers to classes handled by the teachers -participants to prevent disruption of instructional time
7. All expenses to be incurred in the conduct of this training shall be charged against 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.
8. There will be an on-line meeting with the select Trainers and TWGs on October 17, 2025, at 3:00 PM.
9. This Memorandum also serves as travel authority of the participants, resource speakers and the members of the technical working group.
10. Immediate and wide dissemination of this Memorandum is earnestly desired.


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. _____, s. 2025

A. TRAINING MATRIX

**DIVISION TRAINING ON INTEGRATING AND CUSTOMIZING
MANIPULATIVES FOR DIVERSE KEY STAGE 1 LEARNERS
TOWARDS GREATER ACADEMIC ACHIEVEMENT**

October 22-24, 2025

Program Activities

TIME	DAY 1 (Oct 22)	DAY 2 (Oct 23)	DAY 3 (Oct 24)
7:00-8:00	Arrival / Registration		
8:00-8:30	Opening Program Pretest <i>(Program Management Team)</i> The Revised K to 12 Curriculum and Early Numeracy: Why Manipulatives, Play and Practical Works Matter <i>(Charito N. Laggui, PhD)</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>
8:31-10:00	Creating a Manipulative- Friendly Classroom: Organizing and Managing Math Tools for Young Students <i>(RP: Maricris M. Marquez)</i>	From Counting to Calculating: Using Manipulatives to Teach Core Math Skills in Grades 1-3 <i>(RP: Maricris M. Marquez)</i>	Assessing Understanding: Using Manipulatives to Monitor and Evaluate Early Math Learning <i>(RP: Angelo S. De Leon)</i>
10:01-10:15	Health Break	Health Break	Health Break
10:15-12:00nn	Hands-On Math: Building Strong Foundations in Numbers and Operations (Grades 1-3) <i>(RP: Rosalie G. Centeno)</i>	Enhancing Addition and Subtraction Skills: Effective Manipulative-Based Strategies for Early Learners <i>(RP; Eric S. Carangan)</i>	Action Research in Math: Documenting Best Practices with Manipulatives and Play Based Approaches <i>(Francisco F. Macale)</i>
12:00- 1:00	L U N C H		
1:00- 2:00	Visualizing Math Concepts: Using Manipulatives to Bridge Abstract and Concrete Learning <i>(RP: Angelo S. De Leon)</i>	Hands-On Measurement: Teaching Measurement Concepts Using Manipulatives in Early Grades <i>(RP: Rodbert M. Santos)</i>	Workshop and Demonstration Teaching <i>(Resource Person in Charge)</i>
2:01-3:00	Building Mathematical Vocabulary and Conceptual Understanding with Manipulatives <i>(RP: Elsie C. Galarion)</i>	Exploring Geometry: Hands- On Activities with Manipulatives to Teach Shapes and Space <i>(RP: Eric S. Carangan)</i>	Critiquing, Reflection and Commitment Setting
3:01-3:15	Health Break	Health Break	Health Break
3:16- 5:00	Workshop 1: Teachers' Hands- On Practice: Designing DLL Aligned Math Activities Using Manipulatives	Play-based Learning: Math Games and Interactive Strategies for Engaging Young Learners <i>(RP: Rodbert M. Santos)</i>	Posttest <i>(Program Management Team)</i>
		Workshop 2: Collaborative Lesson Planning: Designing DLL Aligned Activities with Play-based and Manipulative Approaches	Closing Program <i>(Program Management Team)</i>



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Enclosure No. 2 of Division Memorandum No. 510, s. 2025

Resource Persons/ Technical Working Group

NAME	POSITION	SCHOOL
RESOURCE PERSONS		
Eric S. Carangan	Master Teacher I	Sta.Rita Elementary School
Rodbert M. Santos	Principal I	Borol 1st Elementary School
Angelo de leon	Head Teacher III	Paltok Elementary School
Elsie C. Galarion	Master Teacher I	San Marcos Elementary School
Maricris M. Marquez	Master Teacher II	Manatal Elementary School
Rosalie G. Centeno	Master Teacher I	Capihan Elementary School
TECHNICAL WORKING GROUP		
Charito T. Santos	Teacher III	Atilano S. De Guzman Elementary School
Norylyn V. Perez	Teacher III	Gen.Gregorio del Pilar Integrated School
Jerico T. Cruz	Teacher III	San Jose Elementary School
Delia Geronimo	Master Teacher I	Sta Elena Elementary School
Patricia D. Paulino	Teacher 1	Pulilan Central School
2 Nurse		SGOD



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

LIST OF PARTICIPANTS

No	School	Name	Position
1	Gen. Gregorio Del Pilar Integrated School	Maria Romina D. Carpio	Teacher III
2	Matungao Elementary School	Reycelyn R. Lorenzo	Teacher II
3	Sta. Ana Elementary School	Jenny Rose Rivera	Teacher I
4	Sta. Ines Elementary School	Sunshine S. Yabut	Teacher II
5	Gen. Gregorio Del Pilar Integrated School	Jennilyn G. Concepcion	Teacher I
6	Marcelo H. Del Pilar Memorial School	Geraldine S. Marteja	Teacher I
7	F. Mendoza Memorial Elementary School	Jenny T. Mercado	Teacher I
8	Pascual O. Cruz Memorial Elementary School	Ma. Fe M. Garces	Teacher III
9	Arsenio Santos Memorial Es	Hannah Joyce C. De Dios	Teacher I
10	Dona Damiana De Leon Macam Mes	Evelyn M. Manalo	Teacher III
11	Meyto Elementary School	Jenyhl Lara I. Enriquez	Teacher I
12	Panducot Elementary School	Keith Crista A. Torres	Teacher I
13	Caniogan Elementary School	Meriam O. Clemente	Teacher III
14	Calumpit Central School	Ly Anne B. Reluya	Teacher I
15	Northville 9 Elementary School	Pamela M. Mangio	Teacher I
16	Longos Elementary School	Lorenzo M. Gutierrez	Teacher III
17	Pungo Elementary School	Ian Paul R. Bautista	Teacher I
18	San Marcos Elementary School	Jazel Mariz G. Coronel	Teacher I
19	San Agustin Elementary School	Erlyn O. Venezuela	Teacher I
20	Hangga Elementary School	Ma. Luz V. Villanueva	Teacher III
21	Iba Elementary School	Jessalie Nabong	Teacher I
22	Eugenio G. Sy Tamco Elementary School	Maila C. Reyes	Teacher I
23	Iba Ibayo Elementary School	Conrada S. Torres	Teacher III
24	Abulalas Elementary School	Rochelle R. Bernardo	Teacher III
25	Sta. Monica Elementary School	Rosemarie H. Pastrana	Teacher II
26	San Jose Elementary School	Florina B. Nuguid	Teacher II
27	Pugad Elementary School	Bea Patricia I. De Leon	Teacher I
28	Buga Elementary School	Maria Anita B. Agulto	Teacher I
29	Hagonoy West Central School	Mabel S. Roque	Teacher I
30	Mercado Elementary School	Vanessa M. Montalbo	Teacher I
31	Paombong Central School	Jeannylyn L. De Guzman	Teacher II
32	Sto. Niño Elementary School	Romerica A. Gonzales	Teacher I
33	Pinagtulayan Elementary School	Patria A. Medina	Teacher II
34	San Jose Elementary School	Daphne C. Senson	Teacher I
35	Kapitangan Elementary School	Eugenia S. Ting	Teacher III
36	Pulo Elementary School	Evelyn R. Baltazar	Teacher II
37	Inaon Integrated School	Kim Laiza F. Enriquez	Teacher I



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38	Balatong B Elementary School	Nicky Shyne M. Marcelo	Teacher I
39	Dampol B Elementary School	Mary Rose J. Aguirre	Teacher I
40	Pulilan Central School	Sherimae W. Esguerra	Teacher III
41	Pulilan Central School	Mariel B. Reyes	Teacher III
42	Pulilan Central School	Aisa M. Cruz	Teacher III
43	Bustos Elementary School	Kathleen Mae B. Angeles	Teacher I
44	Simplicio S. Del Rosario Mes	Melannie R. Tapang	Teacher I
45	Catacte Integrated School	Analyn H. De Leon	Teacher III
46	Malamig Elementary School	Marybeth M. De Vera	Teacher I
47	Bonga Menor Elementary School	April Roselyn E. Dela Cruz	Teacher I
48	Tibagan Elementary School	Jonalyn C. Reyes	Teacher I
49	Plaridel Elementary School	Veronica L. Simplina	Teacher III
50	Sto.Nino Elementary Shool	Belinda V.De Jesus	Teacher III
51	Plaridel Elementary School	Mary Jane D.Ronquillo	Teacher II
52	San Jose Elementary School	Sheryl P. Gatchalian	Teacher II
53	Banga Elementary School	Flor Rachel S.Militante	Teacher III
54	Don Nemencio Clemenña Memorial School	Lauriane Jane C. Santos	Teacher I
55	Baras Bakal Elementary School	Annie R. Santiago	Teacher III
56	Kalayaan Elementary School	Baby Love B. Lara	Teacher III
57	Baras Bakal Elementary School	Michelle V. Santos	Teacher I
58	Kalayaan Elementary School	Maribeth S. Bautista	Teacher I
59	Kalayakan Elementary School	Michael M. Santos	Teacher I
60	Camachile Es	Princess I. Dela Torre	Teacher III
61	Lapnit Elementary School	Jessa V. Disono	Teacher I
62	Nabaong Garlang Elementary School	Abigail N. Pastrana	Teacher I
63	Mataas Na Parang Elementary School	Crissa P. Pastrana	Teacher I
64	Sta Catalina Matanda Elementary School	Minerva B. Lapuz	Teacher III
65	Bubukong Munti Elementary School	Jennelyn C. Perez	Teacher III
66	San Ildefonso Elementary School	Arianne S. Legaspi	Teacher I
67	Akle Elementary School	Analyn R. Raymundo	Master Teacher I
68	Pinaod Central	Allelie Dg. Santos	Teacher III
69	Casalat Elementary School	Maila L. Painaga	Teacher III
70	Pasong Bangkal Elementary School	Sherlyn S. Lagasca	Teacher I
71	Pinaod Central Schol	Mary Grace A. Calderon	Teacher III
72	Sitio Biga Elementary School	Myra R. Montemayor	Teacher I
73	San Miguel North Central School	Jocelyn B. Manalastas	Teacher III
74	San Miguel North Central School	Queenie L. Kabigting	Teacher I
75	Sta.Ines Elementary School	Denice M. Gutierrez	Teacher I
76	Buliran Elementary School	Jonalyn C. Mendoza	Teacher III
77	Pinambaran Elementary School	Rodeth Joy G. Hementera	Teacher II
78	Sta.Ines Elementary School	Lilian P. Estarez	Teacher III



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79	Balaong Elementary School	Sherly Q. Ignacio	Teacher III
80	Salacot Elementary School	Luzviminda C. Macaroncio	Teacher III
81	Bagong Silang Elementary School	Marinela Dj. San Juan	Teacher I
82	Tartaro Elementary School	Emmarie Rose O. Videña	Teacher I
83	Labne Elementary School	Jessica E. Marcelo	Teacher III
84	San Juan Elemenatry School	Charisse May Dp. Daquiz	Teacher II
85	Pulong Bayabas Elementary School	Shiela Marie Y. Laurencio	Teacher I
86	Dr. Juan F. Pascual Memorial School	Maricel C. Domingo	Teacher III
87	Tibagan Elementary School	Kris Carol B. Roque	Teacher I
88	San Vicente Elementary School	Jaquie Lyn V. Magtalas	Teacher III
89	Don Felix De Leon Memorial School	Conie S. Lazaro	Teacher II
90	Pacalag Elementary School	Ma. Elaine H. Ramon	Master Teacher I
91	Tambubong Elementary School	Mica Elida A. Buhay	Teacher 1
92	Pantubig Elementary School	Angeline S. Alvarez	Teacher III
93	San Rafael Central School	Joy V. Bunag	Teacher II
94	Pulo Eleentary School	Editha V. Basa	Teacher III
95	Caingin Elementary School	Kisses S. Alarcon	Teacher 1
96	Coral Na Bato Elementary School	Edita V. Valino	Teacher I
97	Maguinao Elementary School	Baby Maye B. Narito	Teacher III
98	Salapungan Elementary School	Rachelle Irish Villasfer	Teacher III
99	Maguinao Elementary School	Cheenny T. Cruz	Teacher I
100	Dagat-Dagatan Elementary School	Almira I. Mapoy	Teacher I
101	Diliman Elementary School	Dianne V. Alcantara	Teacher I
102	San Roques Elementary School	Catherine F. Valondo	Teacher I
103	Fss Patulo Elementary School	Gina D. Billones	Teacher III
104	Heritage Homes Integrated School	Marilyn M. Santos	Teacher II
105	Loma De Gato Elementary School	Marison M. Valdez	Teacher III
106	Patubig Elementary School	Kristine M. Sedomia	Master Teacher I
107	Prenza Elementary School	Aibie F. Dela Cruz	Teacher I
108	Sta. Rosa I Elementary School	Mary Jane O. Calo	Teacher I
109	Northville Iv-B Elementary School	Mariz P. Galindo	Teacher 1
110	Lambakin Elementary School	Jovelyn M. Jurlano	Teacher I
111	Abangan Sur Elementary School	Bencen Tapleras	Teacher 1
112	Saog Elementary School	Gladys A. Guzman	Teacher I
113	Ibayo Elementary School	Analiza B. Mendiola	Master Teacher II
114	Marilao Central Integrated School	Steffi I. Nambio	Teacher I
115	Panghulo Elementary School	Myra R. Ascaño	Teacher II
116	Catanghalan Elementary School	Ma. Lourdes B. Bautista	Teacher II
117	Binuangan Elementary School	Apple Joy A. Gonzales	Teacher I



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118	Paco Elementary School	Analisa B. Cristobal	Teacher III
119	San Pascual Elementary School	Beatriz S. Marquez	Teacher I
120	Obando Central School	Maica C. Marquez	Teacher III
121	Balagtas Central School	Arianne Andrea A. Magpayo	Teacher III
122	Santol Elementary School	Melanie C. Salvador	Teacher II
123	Sulok Elementary School	Lualhati P. Panopio	Teacher I
124	Longos Elementary School	April E. Coronel	Teacher III
125	Borol I Elementary School	Marissa G. Cabbab	Teacher II
126	San Juan Elementary School	Angielete C. Cabagbag	Teacher III
127	Northville 5 Elementary School	Romalyn C. Talastas	Teacher I
128	Joni J. Villanueva-Tugna Elementary School	Famela I. Arcilla	Teacher I
129	Turo Elementary School	Kathleen Dc. Portugal	Teacher I
130	Joni J. Villanueva-Tugna Elementary School	Pamela Camille D. Galvez	Teacher I
131	Batia Elementary School	Delson P. Española	Teacher I
132	St Martha Elementary School	Juvielyn A. Canales	Teacher I
133	Pulonggubat Elementary School	Michelle N. Robles	Teacher I
134	Tabang Elementary School	Vernalyn R. Perlas	Teacher III
135	Malis Elementary School	Criselda N. Timblique	Teacher III
136	Sta.Cruz Elementary School	Remia D. Cajuday	Teacher I
137	Sta. Rita Elementary School	Mary Angel M. Lopez	Teacher I
138	Guiguinto Central School	Amelie E. Viquiera	Teacher III
139	Pandi Residences Elementary School	Lea C. Borreta	Teacher I
140	Siling Matanda Elementary School	Krizzle S. Santiago	Teacher I
141	Pandi Residences Elementary School	Jedidiah Micah L. Barlis	Teacher I
142	Mapulang Lupa Elementary School	Angela A. De Leon	Teacher I
143	Pandi Residences Elementary School	Diana Lyn C. Boticario	Master Teacher I
144	Matias B. Salvador Memorial Elementary School	Jeramiah Jezreel J. Pagdanganan	Teacher I
145	Pandi Heights Elementary School	Ana Marie A. Subido	Teacher I
146	Masagana Elementary School	Juanita J. Galman	Teacher III
147	San Antonio Abad Eleoemntary School	Vanessa Lorraine S. De Leon	Teacher I
148	Bunsuran Elementary School	Jannet P. Lozano	Teacher II
149	Bagong Barrio Elementary School	Erica A. Roque	Teacher III
150	Masuso Elementary School	Jasmine Cruz	Teacher I
151	Antonio C. Cruz-Sulucan Elementary School	Ybonna M. Zafra	Teacher II
152	Matias A. Fernando Memorial School	Mary Ann S. Cabaya	Teacher I
153	Don Pablo Amisola Memorial School	Malanie I. Santos	Teacher III
154	Dr. Antonio C. Villarama Memorial School	Vanessa M. Trinidad	Teacher I
155	Matias A. Fernando Memorial School	Vanessa L. Dizon	Teacher I
156	Pablo C. Capistrano Elementary School	Rowena D. Correa	Teacher III



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157	San Mateo Elementary School	Joselyn M. Escalada	Master Teacher I
158	Timoteo Policarpio Memorial Elementary School	Gwindylen M. Cruz	Master Teacher I
159	Sapang Kawayan Elementary School	Alissa Joy B. Rayo	Teacher I
160	Bigte Elementary School	Mylla Nicole Q. Pronebo	Teacher III
161	Caimino Elementary School	Bethylene C. Esquivel	Master Teacher I
162	Apugan Elementary School	Priscila B. Rayo	Teacher III
163	Norzagaray Elementary School	Cristal Alliz T. Bantog	Teacher I
164	North Hills Village Elementary School	Ditas C. Rismal	Teacher I
165	Fvr 2 Elementary School	Mary Grace B. Taguinod	Teacher I
166	Fvr Phase 3 Elementary School	Rowena M. De Mesa	Master Teacher II
167	Matictic Integrated School	El Jone S. Creencia	Teacher III
168	Luis Gravador Elementary Sschool	Jocelyn R. Santiago	Master Teacher I
169	Parada Elementary School	Arlene B. Agocoy	Teacher I
170	San Gabriel Elementary School	Christina G. Lapid	Teacher I
171	Camangyanan Elementary School	Maribel N. Porciuncula	Teacher II
172	Bagbaguin Elementary School	Perry Lou M. Eugenio	Teacher I
173	Tumana Elementary School	Regoberta S. Esguerra	Teacher III
174	San Vicente Elementary School	Myra G. Montilla	Teacher I
175	Garden Village Elementary School	Alma M. Aguilando	Master Teacher I
176	Balasing Elementary School	Imelda Sa. Gener	Teacher I
177	Mag-Asawang Sapa Elementary School	Cheene O. De Leon	Teacher I
178	Bagong Barrio Elementary School	Rowena C. Mateo	Master Teacher II
179	Caypombo Elementary School	Jocelyn Canivel	Teacher I
180	Cornelia M. De Jesus Memorial Central School	Aiza Dc. Olivar	Teacher I
181	Sta.Cruz Elementary School	Ana Lisa G. Lapid	Teacher III
182	Sta. Clara Elementary School	Arceli M. Jacinto	Teacher I
183	Miguel M. Cruz Memorial School	Melody M. De Castro	Teacher I
184	Manggahan Elementary School	Rosalie M. Bernardo	Teacher III
185	Jose Juan Serapio Elementary School	Michelle S. Alejandro	Teacher I
186	St. Mary Village Elementary School	Samantha G. Manuel	Teacher I