



Republic of the Philippines
Department of Education
NATIONAL CAPITAL REGION
SCHOOLS DIVISION OFFICE OF MUNTINLUPA CITY


Office of the Schools Division
Superintendent

MEMORANDUM

**MASTERING ABSTRACT THINKING THROUGH HANDS ON MATH LEARNING:
UNDERSTANDING CONCRETE REPRESENTATION ABSTRACT (CRA)
APPROACH FOR KEY STAGES 1 AND 2**

To: Assistant Schools Division Superintendent
Chief Education Supervisor, Curriculum Implementation Division
Public Elementary School Heads
All Others Concerned

1. In line with the SDO initiatives on Advancing Literacy and Mathematics in Muntinlupa (ALAM) which aims to bridge the resource gap in numeracy (Key stages 1 and 2), and to elevate student achievement levels, the Schools Division Office through the Curriculum Implementation Division in cooperation with Alpha Edu Tech Solutions Inc. will conduct the above captioned activity on November 5, 2025 (Wednesday), from 8:00 AM. – 5:00 PM at SDO Activity Area.
2. The activity aims to provide Key Stages 1 and 2 teachers with a significant understanding of mathematics manipulatives. Likewise, participants are expected to select, utilize, and adapt math manipulatives to support learners' cognitive development, ensuring engagement and deeper comprehension of abstract mathematical ideas.
3. Attached are the following enclosures:
 - o Enclosure No. 1: List of Participants
 - o Enclosure No. 2: Training Matrix
4. Immediate and wide dissemination of this Memorandum is desired.


VIOLETA M. GONZALES CESO VI
Assistant Schools Division Superintendent
Officer-In-Charge
Office of the Schools Division Superintendent

Enclosure: As stated
Reference: None
To be indicated in the Perpetual Index
Under: NUMERACY

EMB – Mastering Abstract Thinking Through Hands on Math Learning: Understanding Concrete Representation Abstract (CRA) Approach for Key Stages 1 and 2
EMB/OCT 20,2025 /428

UN-2025-428



Student Center for Life Skills Bldg., Centennial Ave, Brgy. Tunasan, Muntinlupa City
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UN-2025-428



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Enclosure No. 1: Teacher Participants for the Training

Project Title: Mastering Abstract Thinking Through Hands on Math Learning:
Understanding Concrete Representation Abstract (CRA) Approach for Key Stages 1 and 2

Date: November 5, 2025

Venue: SDO Activity Area

AM SESSION:

NAME OF SCHOOL	COMPLETE NAME OF PARTICIPANTS	GRADE LEVEL
1 ALABANG ES	Jenny A. Sumagui	Grade 5
	Jane M. Victorino	Grade 3
	Ladylyn Perdiguerra	Grade 6
2 BAGONG SILANG ES	Joema T. Cerveza	Grade 6
	Ronalyn A. Rapista	Grade 2
	Geno E. Armario	Grade 5
3 BAYANAN ES - MAIN	Ronalyn P. Tmpipi	Grade 2
	Hazzle P. Tapaurel	Grade 4
	Imelda P. Lopez	Grade 5
4 BAYANAN ES – UNIT I	Fernamae D. Mateo	Grade 3
	Remelyn Joy P. Rebellon	Grade 1
	Emman Jude L. Hipos	Grade 5
5 BULI ES	Imelda C. Cervantes	Grade 4
	Sandra G. Protacio	Grade 2
	Essan Mae D. Balmeo	Grade 5
6 CUPANG ES - ANNEX	Elizabeth Z. Tiston	Grade 6
	Annabelle P. Vecina	Grade 3
	Zarahline M. Delos Santos	Grade 2
7 CUPANG ES - MAIN	Dianne A. Piano	Grade 6
	Roylyn T. Reyes	Grade 2
	Jar Ar Magnaye	Grade 5
8 F. DE MESA ES	Nica Jean G. Santos	Grade 5
	Rosel T. Cabasag	Grade 2
	Sheila Marie C. Acebes	Grade 2
9 FILINVEST ALABANG ES	Juvy D. Laral	Grade 6
	Joan B. Gay	Grade 2
	Erlyn D. Galgo	Grade 5
10 ITAAS ES	Elizabeth P. Castro	Grade 1
	Janet A. Daludado	Grade 2
	Analyn M. Felix	Grade 5



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PM SESSION:

NAME OF SCHOOL		COMPLETE NAME OF PARTICIPANTS	GRADE LEVEL
1	MUNTINLUPA ES	Margarita A. Gueta	Grade 6
		Klarize B. Bermejo	Grade 5
		Janice D. Suitado	Grade 2
2	POBLACION ES	Leona S. Sena	Grade 4
		Alona R. Jagolino	Grade 3
		Pearl Joanne M. Ramos	Grade 5
3	PUTATAN ES	Elizabeth R. Lugtu	Grade 6
		Gian Carlos S. Dela Cruz	Grade 1
		Myra D. Santos	Grade 6
4	SOLDIERS HILLS ES	Gracita A. Valladores	Grade 4
		Myrna C. Goseso	Grade 1
		Mary Ann B. Villadolid	Grade 5
5	SUCAT ES	Myra F. Sabater	Grade 4
		Antonette Tabada	Grade 3
		Erwin Morris	Grade 4
6	SUCAT ES ZONE 3	Joan B. Lipon	Grade 1
		Melanie D. Alberto	Grade 4
		Ailyn T. Oca	Grade 5
7	SUCAT ES ZONE 4	Jocelyn G. Pendiody	Grade 6
		Eugenia Francia P. Pancipane	Grade 4
		Brenda B. Lachica	Grade 1
8	TUNASAN ES	Regina C. Comisario	Grade 6
		Shiela Breeze M. Tarinay	Grade 5
		Aira Domiquel T. Castro	Grade 2
9	VICTORIA HOMES ES	Michael M. Blando	Grade 6
		Daisyre R. Romera	Grade 4
		Margie D. Leonor	Grade 3
10	LAKEVIEW INTEGRATED SCHOOL (ELEM)	Abbygail A. Palafox	Grade 6
		Mae Ann J. Varona	Grade 3
		Roselyn C. Fuentes	Grade 4

Program Management Team

Complete Name	Position/Designation
1. Chelo DG Rongavilla	Education Program Specialist II -SMME
2. Andres F. Sicam	Education Program Specialist II - HRTD

Technical Working Group

Complete Name	Position/Designation
1. Dr. Armida S. Oblinada	Science and STEM Education Program Supervisor
2. Vanessa D. Clamana	ADA VI



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Enclosure No. 2: Training Matrix

AM SESSION

TIME	PROGRAMME	PERSON IN CHARGE
7:30 AM – 8:00 AM	Registration	TWG
8:00 AM – 8:30 AM	Opening Program - National Anthem - Prayer - Muntinlupa March - SDO Hymn - DepEd Quality Policy - Acknowledgement of Participants - Statement of Purpose - Welcome Remarks - Inspirational Messages	PMT Division Mathematics Coordinator CID Chief ASDS SDS
8:30 AM – 9:45 AM	Morning Session Mathematics in Motion: Manipulatives Matter (For 30 participants in 10 Elementary Schools)	Alpha EduTech Solutions Inc.
9:45 AM– 10:00 AM	AM SNACKS	Alpha EduTech Solutions Inc.
10:00 AM -11:45 AM	Continuation of AM Session Mathematics in Motion: Manipulatives Matter	Alpha EduTech Solutions Inc.
11:45 AM– 12:00 NN	Synthesis and Program Evaluation	PMT
12:00 NN– 1:00 PM	LUNCH BREAK	Alpha EduTech Solutions Inc.
PM SESSION		
1:00 PM– 1:30 PM	Registration	TWG
1:30 PM –1:45 PM	Opening Program	PMT
1:45 PM - 3:00 PM	Afternoon Session Mathematics in Motion: Manipulatives Matter	Alpha EduTech Solutions Inc.
3:00 PM – 3:15 PM	AFTERNOON SNACKS	Alpha EduTech Solutions Inc.
3:15 PM – 4:30 PM	Continuation Mathematics in Motion: Manipulatives Matter	Alpha EduTech Solutions Inc.
4:30 PM– 4:45 PM	Synthesis and Program Evaluation	PMT
4:45 PM – 5:00 PM	Closing Program	PMT