



Republic of the Philippines
Department of Education
REGION XI
SCHOOLS DIVISION OF DIGOS CITY

Office of the Schools Division Superintendent

DIVISION MEMORANDUM

CID-2023-062

To : CID Chief
 Public Schools District Supervisors
 Education Program Supervisor in Mathematics
 Elementary and Secondary Public School Heads
 Elementary and Secondary Public School Teachers

Subject : **CHANGES AND ADDITIONAL INFORMATION ON DM-CID 024, S. 2023, ENTITLED "RESKILLING OF TEACHERS ON MANIPULATING MATHEMATICS EQUIPMENT AND TOOLS"**

Date : March 6, 2023

In reference to DM-CID 024, s. 2023 entitled, "Reskilling of Teachers on Manipulating Mathematics Equipment and Tools," this office informs the field including identified trainers and technical working group (TWG) the following changes and additional information of the training, to wit:

1. Screening of Trainers and Simulation will be held on March 17, 2023 (Friday) instead of March 3, 2023 (Friday).
2. The training shall be held at Arnaldo's Hotel and Restaurant, Rizal Avenue, Digos City.
3. Teacher-trainers and technical working group are expected to submit electronically the following materials to jemboy.cabrella@deped.gov.ph with the timeline below prior to the training:

Materials	Timeline	Persons Concerned
Session Guide	Feb. 27 to March 3, 2023	EPS-Math & Trainers/TWG
Powerpoint Presentation	March 3 to 15, 2023	EPS-Math & Trainers/TWG

4. Due to overlapping of schedules for the month of April 2023, the adjusted schedule of this 3-day training will be on March 31 (Friday) to April 2, 2023 (Sunday).
5. Templates of session guide and powerpoint presentation are provided in the group chat of EPS-Math, trainers and technical working group.

Immediate dissemination of this Memorandum is desired.

DepEd Schools Division of Digos City
 RECORDS SECTION

RELEASED

DATE: MAR 13 2023 TIME: 11:21 am
 BY: [Signature]

[Signature]

CRISTY C. EPE
 Schools Division Superintendent

Enclosed: As stated

CID/jbc



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Republic of the Philippines
Department of Education
REGION XI
SCHOOLS DIVISION OF DIGOS CITY

Office of the Schools Division Superintendent

DIVISION MEMORANDUM

CID-2023- 024

To : CID Chief
Public Schools District Supervisors
Education Program Supervisor in Mathematics
Elementary and Secondary Public School Heads
Elementary and Secondary Public School Teachers

Subject : **RESKILLING OF TEACHERS ON MANIPULATING MATHEMATICS EQUIPMENT AND TOOLS**

Date : February 6, 2023

In reference to the implementation of the Division Education Development Plan, this office informs the field that the Reskilling of Teachers on Manipulating Mathematics Equipment and Tools will be conducted on March 31 to April 1 and 14, 2023.

This activity is aimed to:

1. share knowledge and skills on handling Mathematics equipment and tools;
2. gain techniques and strategies on how to use manipulatives and apply experiential and situated learning in the delivery of Mathematics K to 12 curriculum;
3. facilitate engaging hands-on activities for elementary and secondary teachers handling Mathematics in order to increase students' appreciation in learning the subject and eventually increase academic performance; and
4. appreciate the use of manipulatives and other Mathematics equipment and tools as a means to let the learners experience Mathematics within and outside the four walls of the classroom.

Below is the series of activities to be conducted by the Education Program Supervisor in Mathematics, trainers and technical working group to ensure readiness during the actual training, to wit:

No.	Activities	Modality/ Venue	Date	Persons Involved
1	School visit and exploration of the different Mathematics equipment and tools of the following schools: a. Digos City Central Elem. School	Face to face / Identified schools	February 17, 2023 (Friday) from 8:00 AM to 5:00 PM	EPS-Math Trainers Technical Working Group



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	b. Ramon Magsaysay Central Elem. School c. Don Mariano Marcos Elem. School d. Digos City National High School			
2	Screening of Trainers and Simulation	Face to face / Digos City Central Elem. School	March 3, 2023 (Friday) from 8:00 AM to 5:00 PM	EPS-Math Trainers Technical Working Group
3	Reskilling of Teachers on Manipulating Mathematics Equipment and Tools	Face to face / Venue to be announced	March 31 to April 1 and 7, 2023 from 8:00 AM to 5:00 PM	EPS-Math Trainers Technical Working Group 50 participants from the different schools

Attached herewith are the following:


- a. Enclosure 1 – List of Trainers/Technical Working Group
- b. Enclosure 2 – Distribution of Participants per School
- c. Enclosure 3 – Working Committees
- d. Enclosure 4 – Detailed Training Matrix

Meals, travel and other incidental expenses of teacher-participants shall be charged against School MOOE/local funds while the meals, travel and other incidental expenses of trainers and technical working group shall be charged against Division MOOE.


Service credits shall be granted to all public school teacher participants while compensatory overtime credits (COC) shall be granted to supervisors, school heads, and other non-teaching personnel in public schools for the services rendered during Saturdays, Sundays, or holidays (DepEd Order No. 53, s. 2003).

Immediate dissemination of this Memorandum is desired.

For and in the absence of the Schools Division Superintendent:


BEVERLY S. DAUGDAUG, EdD
Chief Education Supervisor
Officer-In-Charge

DepEd Schools Division of Digos City
RECORDS SECTION

RELEASED
23-97413
DATE: FEB 07 2023 TIME: 1:29 PM
BY: 

Enclosed: As stated.

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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author details the various methods used to collect and analyze the data. This includes both primary and secondary research techniques. The goal is to provide a comprehensive overview of the current state of the field.

The third part of the document focuses on the results of the study. It presents a series of findings that are both statistically significant and practically relevant. These results are discussed in the context of existing literature to highlight their contribution.

Finally, the document concludes with a series of recommendations for future research. It suggests several areas that need further exploration and provides a clear path forward for researchers in this field.

The author expresses their gratitude to the funding agencies and the participants who made this research possible. They also acknowledge the support of their colleagues and family members.

Enclosure 1 of DM-CID-2023-024

List of Trainers/Technical Working Group (TWG)

No.	Name	School/Office
1	Thessa Mac D. Eting	Digos City Central Elem. School
2	Reynaldo Jr. A. Gonzales	Digos City National High School
3	Juner O. Gultiano	Senior High School in Digos City
4	Ralph D. Lim	Digos City National High School
5	Abshalom P. Legaspi	Goma National High School
6	Lecilyn B. Gultiano	Matti National High School
7	Herick Reel D. Sordilla	Digos City Central Elem. School
8	Sittie Ainee G. Macatbar	Ramon Magsaysay Central Elem. School
9	Lorelai O. Casoñete	Don Mariano Marcos Elem. School
10	Jem Boy B. Cabrella – EPS-Math	Schools Division of Digos City
11	Joel B. Gomito – Division Nurse	Schools Division of Digos City



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Distribution of Participants
Reskilling of Teachers on Manipulating Mathematics Equipment and Tools

District	School	No. of Participants			
		Grades 1 to 3	Grades 4 to 6	Grades 7 to 10	Grades 11 to 12
Mt. Apo District	Apolandia ES		1		
	Binaton ES	1			
	Marawer ES		1		
	Matti ES	1			
	N. isidro ES		1		
	Reusora ES	1			
	Rizal CES		1		
	Soong ES	1			
Digos Occidental District	Alferez ES		1		
	Balabag ES	1			
	Damnasa ES		1		
	Digos CES	1	1		
	Dulangan ES		1		
	J. Alberca ES	1			
	Mahayahay ES		1		
	P. Basalan ES	1			
Digos South District	Ruparan ES		1		
	Abawang ES		1		
	Bagumbuhay ES	1			
	C. Nonol ES		1		
	Colorado ES	1			
	Igpit ES		1		
	Lungag ES	1			
	Maniapao ES		1		
Digos Oriental District	San Miguel ES	1			
	Saplala ES		1		
	Abalayan ES	1			
	Aplaya ES		1		
	Badiang ES	1			
	Cogon ES		1		
	Dawis ES	1			
	DMMES		1		
Secondary Schools District	Garcia ES	1			
	Kibanban ES		1		
	RMCES	1	1		
	Balabag NHS			1	
	Dawis NHS			1	
	Digos City NHS			1	1
	DiCNHS-Aplaya HS Annex			1	
	Goma NHS				1
Igpit NHS			1		
Kapatagan NHS			1	1	
Matti NHS				1	
Ruparan NHS			1		
SHS in Digos City				1	
Soong NHS			1		
Total by Key Stage		17	20	8	5
Grand Total		50			



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Received of the Treasurer of the University of California

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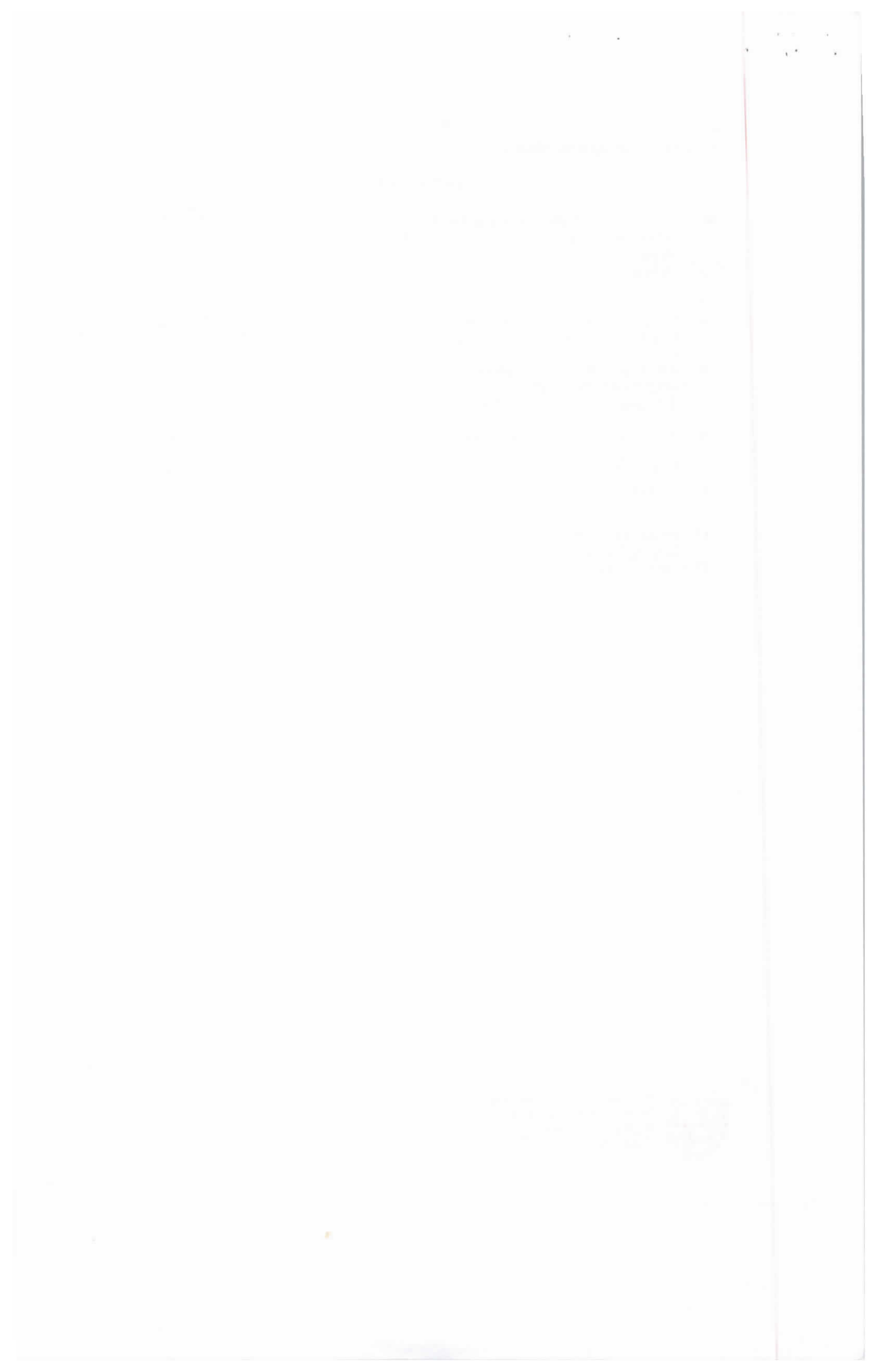
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Working Committees

No.	Particulars to Prepare	Personnel In-Charge
1	Activity Proposal, Activity Request, Purchase Request and Division Memorandum	Jem Boy B. Cabrella
2	Detailed Training Matrix	Jem Boy B. Cabrella Thessa Mae D. Eting
3	Overseer	Jem Boy B. Cabrella
4	Overall Chairperson of the Training	Thessa Mae D. Eting
5	Certificates of Attendance, Certificates of Participation and DTR	Juner O. Gultiano Lorelai O. Casonete
6	Attendance Sheet and Assessment Form Preparation/Secretariat	Reynaldo Jr. A. Gonzales Lecilyn B. Gultiano
7	Tarpaulin and Program Lay-out, if any	Ralph D. Lim Sittie Ainee G. Macatbar
8	AVP of the Preliminaries/Projector In-Charge	Abshalom P. Legaspi Herick Reel D. Sordilla
9	Master of Ceremony	Lorelai O. Casonete
10	Terminal Activity Report	Thessa Mae D. Eting Juner O. Gultiano Reynaldo Jr. A. Gonzales
11	Photo documentation https://tinyurl.com/ReskillingMathEquipToolsPics	Ralph D. Lim Sittie Ainee G. Macatbar
12	Pretest and Posttest	Thessa Mae D. Eting Juner O. Gultiano Reynaldo Jr. A. Gonzales





DETAILED TRAINING MATRIX
RESKILLING OF TEACHERS ON MANIPULATING MATHEMATICS EQUIPMENT AND TOOLS
 March 31 – April 1 and 7, 2023

Time	Learning Objectives	Session/ Activity	Expected Output	Topic/Content Highlights	Teaching/ Learning Methodology	Facilitator/ Resource Person	Resources Needed
Day 1 – March 31, 2023 (Friday)							
7:00 - 8:00 am	Arrival/Registration						
8:00 - 8:30 am	<ul style="list-style-type: none"> Conduct Opening Program 	Prayer, Philippine National Anthem, and DepEd RO XI Prefatories	Setting into an Opening Program	Prayer, Philippine National Anthem, and DepEd RO XI Prefatories	Face to Face	AVP	Laptop, Internet connection
		Opening Remarks and Introduction of the Participants		Opening Remarks and Introduction of the Participants		Jem Boy B. Cabrella, PhD EPS-Math	Laptop
		Presentation of Training Rationale		Training Rationale		Beverly S. Daugdaug Chief, CID	Laptop
8:30 - 9:00 am	<ul style="list-style-type: none"> Obtain the baseline scores of the participants about their knowledge and skill on the development of SIM in Mathematics 	Conduct of Pretest	Pretest results	Pretest which will serve as their baseline assessment about strategic intervention material (SIM) in Mathematics	Paper and Pencil Test	TWG	Test Paper
9:00 - 10:30 am	<ul style="list-style-type: none"> Get to know the expectations of the participants regarding the training-workshop and level off expectations 	Session 1: Setting of Expectations	Get to know the expectations of the participants regarding the training-workshop and level off expectations	Levelling off expectations about the training-workshop	Face to Face	Thessa Mae D. Eting Resource Person	Laptop and Powerpoint presentation
10:30 - 12:00 am	<ul style="list-style-type: none"> Express the rationale and purpose of manipulating Math equipment and tools to facilitate learning 	Session 2: Rationale of Manipulating Math Equipment and Tools to Facilitate Learning	Inculcate the importance of manipulating Math equipment and tools to facilitate learning	Importance of Math Equipment and Tools	Lecture and demonstration	Jem Boy B. Cabrella, PhD EPS-Math	Laptop and Powerpoint presentation
12:00 - 1:00 pm	Lunch Break						
1:00 – 1:10 pm	Management of Learning						



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Time	Learning Objectives	Session/ Activity	Expected Output	Topic/Content Highlights	Teaching/ Learning Methodology	Facilitator/ Resource Person	Resources Needed
1:10 - 5:00 pm (Group 1: Elem- Key Stage 1)	<ul style="list-style-type: none"> Identify the competencies involving Number & Number Sense, and, Measurement Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 3: A. <i>Number and Number Sense</i> B. <i>Measurement</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Thessa Mae D. Eting <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
1:10 - 5:00 pm (Group 2: Elem- Key Stage 2)	<ul style="list-style-type: none"> Identify the competencies involving Geometry, and, Algebra & Patterns Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 3: A. <i>Geometry</i> B. <i>Algebra & Patterns</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Reynaldo Jr. A. Gonzales <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
1:10 - 5:00 pm (Group 3: JHS & SHS)	<ul style="list-style-type: none"> Identify the competencies involving Statistics and Probability, and, Graphing Calculator Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 3: A. <i>Statistics and Probability</i> B. <i>Graphing Calculator</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Juner O. Gultiano <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
Day 2 - April 1, 2023 (Saturday)							
7:00 - 8:00 am	Arrival of Participants/Attendance Checking						
8:00 - 8:15 am	Management of Learning						
8:15 - 12:00 am (Group 2: Elem- Key Stage 2)	<ul style="list-style-type: none"> Identify the competencies involving Number & Number Sense, and, Measurement Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 4: A. <i>Number and Number Sense</i> B. <i>Measurement</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Thessa Mae D. Eting <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
8:15 - 12:00 am (Group 3: JHS & SHS)	<ul style="list-style-type: none"> Identify the competencies involving Geometry, and, Algebra & Patterns 	Session 4: A. <i>Geometry</i> B. <i>Algebra & Patterns</i>	Identify and manipulate the different math tools and equipment used	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Reynaldo Jr. A. Gonzales <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment



Time	Learning Objectives	Session/ Activity	Expected Output	Topic/Content Highlights	Teaching/ Learning Methodology	Facilitator/ Resource Person	Resources Needed
	<ul style="list-style-type: none"> Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 		in these topics and discuss their uses				
8:15 - 12:00 am (Group 2: Elem- Key Stage 1)	<ul style="list-style-type: none"> Identify the competencies involving Statistics and Probability, and Graphing Calculator Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 4: A. <i>Statistics and Probability</i> B. <i>Graphing Calculator</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Juner O. Gultiano <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
12:00 - 1:00 pm	Lunch Break						
1:00 - 1:10 pm	Management of Learning						
1:10 - 5:00 pm (Group 3: JHS & SHS)	<ul style="list-style-type: none"> Identify the competencies involving Number & Number Sense, and, Measurement Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 5: A. <i>Number and Number Sense</i> B. <i>Measurement</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Thessa Mae D. Eting <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
1:10 - 5:00 pm (Group 2: Elem- Key Stage 1)	<ul style="list-style-type: none"> Identify the competencies involving Geometry, and, Algebra & Patterns Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 5: A. <i>Geometry</i> B. <i>Algebra & Patterns</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Reynaldo Jr. A. Gonzales <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment
1:10 - 5:00 pm (Group 2: Elem- Key Stage 2)	<ul style="list-style-type: none"> Identify the competencies involving Statistics and Probability, and, Graphing Calculator Identify Math tools and equipment used in these topics Discuss the use of each Math tool and equipment 	Session 5: A. <i>Statistics and Probability</i> B. <i>Graphing Calculator</i>	Identify and manipulate the different math tools and equipment used in these topics and discuss their uses	Identifying the different Math tools and equipment used in these topics and their uses	Lecture and demonstration	Juner O. Gultiano <i>Resource Person</i>	Laptop, Powerpoint presentation, Math tools and equipment



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Time	Learning Objectives	Session/ Activity	Expected Output	Topic/Content Highlights	Teaching/ Learning Methodology	Facilitator/ Resource Person	Resources Needed
Day 3 – April 7, 2023 (Friday)							
7:00 - 8:00 am	Arrival of Participants/Attendance Checking						
8:00 – 8:10 am	Management of Learning						
8:10 - 11:00 am	<ul style="list-style-type: none"> Apply the knowledge and skills acquired in this seminar through demonstration teaching Give constructive feedback on the demonstration teaching 	Demonstration Teaching	Demonstration Teaching conducted -Elem. -JHS -SHS	Demonstration Teaching conducted with manipulation of Math equipment and tools -Elem. -JHS -SHS	Face to Face	Demonstration Teachers -Elem. -JHS -SHS	Laptop, Powerpoint presentation, Math tools and equipment
11:00 – 12:00pm	<ul style="list-style-type: none"> Obtain the posttest scores of the participants and compare the results to the baseline scores garnered prior to the training-workshop 	Conduct of Posttest	Posttest results	Posttest to check if there is a significant increase of scores before and after the training-workshop	Paper and Pencil Test	TWG	Test Paper
12:00 - 1:00 pm	Lunch Break						
1:00 - 3:00 pm	<ul style="list-style-type: none"> To check the participants' understanding regarding the topics discussed 	General Moving Assessment	Signed Assessment Form	Participants will articulate the different Math equipment and tools and their uses	Moving Exam	Resource Persons & TWG	Assessment Form, Math equipment and tools
3:00 – 5:00 pm	Closing Program						

Prepared by:


JEM BOY B. CABRELLA, PhD
 Education Program Supervisor-Mathematics
 62-04-13

Approved by:


BEVERLY S. DAUGDAUG, EdD
 Chief, Curriculum Implementation Division



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