



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



	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.

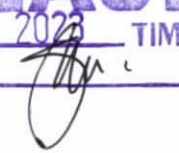
Service credits shall be granted to all public school teacher participants while compensatory overtime credits (COC) shall be granted to supervisors, school heads, and other non-teaching personnel in public schools for the services rendered during Saturdays, Sundays, or holidays (DepEd Order No. 53,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

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23-97413
DATE: FEB 07 2023 TIME: 1:19 PM
BY: 

Enclosed: As stated.

CID/jbc



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List of Trainers/Technical Working Group (TWG)

No.	Name	School/Office
1	Thessa Mae 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. Casonete	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



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			
	Damnas ES		1		
	Digos CES	1	1		
	Dulangan ES		1		
	J. Alberca ES	1			
	Mahayahay ES		1		
	P. Basalan ES	1			
	Ruparan ES		1		
Digos South District	Abawag ES		1		
	Bagumbuhay ES	1			
	C. Nonol ES		1		
	Colorado ES	1			
	Igpit ES		1		
	Lungag ES	1			
	Maniapao ES		1		
	San Miguel ES	1			
	Saplala ES		1		
Digos Oriental District	Abalayan ES	1			
	Aplaya ES		1		
	Badiang ES	1			
	Cogon ES		1		
	Dawis ES	1			
	DMMES		1		
	Garcia ES	1			
	Kibanban ES		1		
	RMCES	1	1		
Secondary Schools District	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			



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. Casoñete
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. Casoñete
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	• 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 <i>EPS-Math</i>	Laptop
		Presentation of Training Rationale		Training Rationale		Beverly S. Daugdaug <i>Chief, CID</i>	Laptop
8:30 - 9:00 am	• 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	• 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 <i>Resource Person</i>	Laptop and Powerpoint presentation
10:30 - 12:00 am	• 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 <i>EPS-Math</i>	Laptop and Powerpoint presentation
12:00 - 1:00 pm	Lunch Break						
1:00 – 1:10 pm	Management of Learning						



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)	- 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: <i>A. Number and Number Sense 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)	- 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: <i>A. Geometry B. 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)	- 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: <i>A. Statistics and Probability B. 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)	- Identify the competencies involving Number & Number Sence, and, Measurement - Identify Math tools and equipment used in these topics - Discuss the use of each Math tool and equipment	Session 4: <i>A. Number and Number Sense B. 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)	Identify the competencies involving Geometry, and, Algebra & Patterns	Session 4: <i>A. Geometry B. 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



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Time	Learning Objectives	Session/ Activity	Expected Output	Topic/Content Highlights	Teaching/ Learning Methodology	Facilitator/ Resource Person	Resources Needed
	- 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)	- 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)	- 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)	- 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)	- 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



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	- 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	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	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
 62-06-13

Approved by:


BEVERLY S. DAUGDAUG, EdD
 Chief, Curriculum Implementation Division



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77159

Training Activity Plan (Training Design)

Program	L&D for Mathematics Teachers				
Activity Title	Reskilling of Teachers on Manipulating Mathematics Equipment and Tools				
General Objectives:	1. Acquire knowledge and skills on handling Mathematics materials, apparatus, and equipment; 2. Gain techniques and strategies on how to use or manipulative Mathematics materials, apparatus and equipment, and 3. Appreciate the use of manipulatives and other Mathematics equipment and tools as a means to let the learners experience Mathematics in the four (4) walls of the classroom				
Specific Objective	Facilitate engaging and hands-on activities for learners of elementary and secondary teachers handling mathematics in order to increase students' appreciation of mathematics lessons				
Proposed Date	March 31 – April 1 and 7, 2023				
Amount	Php 118,000				
Source of Funds	2023 School and Division MOOE Funds				
Items of Expenditures	Number of Pax Required	Unit Cost	Days Required	TOTAL	Source of Funds
Snacks, meals, and venue	50	600.00	3	90,000.00	School MOOE
	10	600.00	3	18,000.00	CID-HRTD
Materials				10,000.00	CID-HRTD
TOTAL				118,000.00	CID-HRTD/School MOOE
Rationale	Republic Act No.10533 prescribes that the K to 12 Basic Education Program shall have a curriculum that is learner-center, inclusive, developmentally relevant and appropriate. It shall be responsive and research-based, anchored on learning theories, principles, sound research, and studies in teaching and learning dynamics. In addition, it shall use pedagogical approaches that are constructivist, inquiry-based, reflective, collaborative, differentiated, and integrative (DO 21, s. 2019). The twin goals of Philippine K to 12 Mathematics Curriculum Framework, namely: critical thinking and problem solving can be achieved by incorporating any of the five (5) learning theories and principles on the pedagogies of teachers in the delivery of the curriculum content. One of the learning theories is the experiential and situated learning, where teachers can make use manipulatives in teaching the concepts in Mathematics. This is consistent with the mathematical tools such as manipulative objects, measuring devices, calculators, computers, smart phones and tablets which addresses the 21st century skills that each learner can acquire to become globally competitive in the field of Mathematics. Furthermore, teachers are the main instruments for the attainment of the objectives of the K to 12 Curriculum, being the providers of front-line service in schools with the learners as the main client. Thus, they must be equipped with necessary skills and competencies to meet the standards set for the K to 12 Curriculum. To provide teachers with a venue for professional development, to make them better equipped in training the young learners and to empower students to "learn to learn" and cause them to better understand and use				

mathematics in their everyday life, SDO-Digos City, through the Curriculum Implementation Division will conduct a Reskilling of Teachers on Manipulating Math Equipment and Tools.

With the premise that some teachers in Digos City Division have attended the said regional training entitled "Regional Training on Manipulation of Mathematics Laboratory Apparatus, Materials, and Equipment," these teacher-participants have the responsibility to share their learning to the other teachers of the Division to multiply knowledge and skills among the front-liners in education. Thus, this reskilling of teachers is proposed.

General Methodology	Lecture, activity, workshop, simulation and demonstration teaching
Learning Facilitators	Jem Boy B. Cabrella, PhD, Thessa Mae D. Eting, Reynaldo A. Gonzales, Juner O Gultiano, Herick Reel D. Sordilla, Lorelai O. Casonete, Ralph D. Lim, Lecilyn B. Gultiano, and Abshalom P. Legaspi
Participants	37 elementary teachers, 8 junior high school teachers and 5 senior high school teachers with a total of 50 participants

SCHEDULE OF ACTIVITIES PER DAY

Time	Session Objectives	Activity/Session	Expected Outputs	Topic/Content	Methodology	Person Responsible	Resources Needed
Day 1:							
7:00 – 8:00 AM	To register the participants	Arrival/registration	Attendance		None	TWG	Attendance sheets
8:00 – 8:30 AM	To set the mood of the participants	Opening Program			AVP	TWG	Laptop, projector, screen, sound system, preliminaries
8:30 – 9:00 AM	To answer the pre-test to determine the strengths and weaknesses	Pre-Test	Scores in the Pre-Test		Pretest in Multiple Choice	TWG	Paper and pencil test
9:00-10:30 AM	To know the expectations of the participants regarding the workshop and level of 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 <i>Resource Person</i>	Laptop and Power-point presentation
10:30 – 12:00 AM	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 <i>EPS-Math</i>	Laptop and Power-point presentation
12:00 – 1:00 PM	LUNCH BREAK						
1:00 – 5:00 PM (Group 1: Elementary Stage 1)	- Identify the competencies involving Number & Number Sense, and, Measurement - Identify Math equipment and tools used in these topics - Discuss the use of each Math	Session 3: A. Number and Number Sense B. Measurement	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Thessa Mae D. Eting <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools



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	equipment and tools						
1:00 - 5:00 PM (Group 2: Elem-Key Stage 2)	- Identify the competencies involving Geometry, and, Algebra & Patterns - Identify Math equipment and tools used in these topics - Discuss the use of each Math equipment and tools	Session 3: A. Geometry B. Patterns and Algebra	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Reynaldo Jr. A. Gonzales <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools
1:00 - 5:00 PM (Group 3: JHS & SHS)	- Identify the competencies involving Statistics and Probability, and, Graphing Calculator - Identify Math equipment and tools used in these topics - Discuss the use of each Math tool and equipment	Session 3: A. Statistics and Probability B. Graphing Calculator	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Juner O. Gultiano <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools
Day 2:							
7:45 - 8:00 AM	Arrival of Participants/ Attendance Checking						
8:00 - 12:00 AM (Group 2: Elem-Key Stage 2)	- Identify the competencies involving Number & Number Sense, and, Measurement - Identify Math equipment and tools used in these topics - Discuss the use of each Math equipment and tools	Session 4: A. Number and Number Sense B. Measurement	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Thessa Mae D. Eting <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools
8:00 - 12:00 AM (Group 3: JHS & SHS)	- Identify the competencies involving Geometry, and, Algebra & Patterns - Identify Math equipment and tools used in these topics - Discuss the use of each Math	Session 4: A. Geometry B. Patterns and Algebra	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Reynaldo Jr. A. Gonzales <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools



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8:00 - 12:00 AM (Group 2: Elem- Key Stage 1)	•Identify the competencies involving Statistics and Probability, and, Graphing Calculator •Identify Math equipment and tools used in these topics •Discuss the use of each Math equipment and tools	Session 4: A. Statistics and Probability B. Graphing Calculator	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Juner O. Gultiano <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools
12:00 - 1:00 PM	LUNCH BREAK						
1:00 - 5:00 PM (Group 3: JHS & SHS)	•Identify the competencies involving Number & Number Sense, and, Measurement •Identify Math equipment and tools used in these topics •Discuss the use of each Math equipment and tools	Session 5: A. Number and Number Sense B. Measurement	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Thessa Mae D. Eting <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools
1:00 - 5:00 PM (Group 2: Elem- Key Stage 1)	•Identify the competencies involving Geometry, and, Algebra & Patterns •Identify Math equipment and tools used in these topics •Discuss the use of each Math equipment and tools	Session 5: A. Geometry B. Patterns and Algebra	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Reynaldo Jr. A. Gonzales <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools
1:00 - 5:00 PM (Group 2: Elem- Key Stage 1)	•Identify the competencies involving Statistics and Probability, and, Graphing Calculator •Identify Math equipment and tools used in these topics •Discuss the use of each Math equipment and tools	Session 5: A. Statistics and Probability B. Graphing Calculator	Identify and manipulate the different Math equipment and tools used in these topics and discuss their uses	Identifying the different Math equipment and tools used in these topics and their uses	Lecture and demonstration	Juner O. Gultiano <i>Resource Person</i>	Laptop, Power-point presentation, Math equipment and tools



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3: 7:45 - 8:00 AM	Arrival of Participants/ Attendance Checking						
8:00 - 11:00 AM	•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, Power-point presentation, Math Math equipment and tools
11:00 - 12:00 PM	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	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						

Notes:

1. Day 1: AM snacks, lunch, and PM snacks
2. Day 2: AM snacks, lunch, and PM snacks
3. Day 2: AM snacks, lunch, and PM snacks
4. Number Resource Persons/TWG/Facilitators to be Charged to CID-HRTD: 10
5. Teacher-participants will be charged to their School MOOE

Prepared by:

JEM BOY B. CABRELLA
Education Program Supervisor
01-31-23

Recommending Approval:

BASILIO P. MANA-AY, JR., EdD
Assistant Schools Division Superintendent

Approved by:

CRISTY C. EPE
Schools Division Superintendent

Noted by:

BEVERLY S. DAUGDAUG, EdD
Chief, CID

Funds Available:

NEPTUNE L. TAMBILAWAN
AO IV - Budget Office

2/1/23
Sch MOOE - ₱ 90,000
CID HRTD - 28,000
₱ 118,000

