



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

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

DIVISION MEMORANDUM
No. 403, s. 2021

July 12, 2021

**Division Training on Technology, Pedagogy and Content Knowledge
for Elementary School Science Teachers**

To: Concerned Education Program Supervisors
Public Schools District Supervisors
School Principals/Teachers-in-Charge

ATTENTION: Selected Elementary School Science Teachers
(Pls. see attached list on number of teacher-participants per District)

1. In reference to the implementation of the Division Education Development Plan (DEDP), the Curriculum and Implementation Division (CID) will conduct an Online Division Training on Technology, Pedagogy and Content Knowledge for Elementary School Science Teachers on July 20-22, 2021, with google links to be provided before the start of the activity through the Public Schools District Supervisors.
2. The training has the following objectives:
 - a. Enhance knowledge, skills, and attitude of elementary school science teachers on technology, pedagogy, and content in Science; and
 - b. Establish a sustainable and cost-effective professional development system for elementary school science teachers.
3. Attached are the List of Required Number of Participants per District, the Training Matrix and the Detailed Learning and Development Plan for reference.
4. Internet communication expenses incurred in the attendance to the activity shall be charged against teachers' allowance from DepEd and/or local funds subject to the usual government accounting and auditing rules and regulations.
5. Teacher-participants are entitled to service credits for the services rendered in the duration of the training. Such privilege is in accordance with DepEd Order No. 53, s. 2003 on "Updated Guidelines on Grant of Vacation Service Credits to Teachers."
6. Further, teacher-trainers/facilitators and the members of the Technical Working Groups shall convene on July 15, 2021 at Digos City National High School AVR to prepare the logistics and to have a walk-through of the topics assigned to each.
7. For immediate dissemination and compliance.

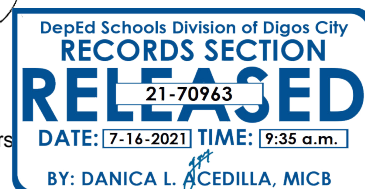

CRISTY C. EPE
Schools Division Superintendent

Encls: List of Participants

References:

To be indicated in the Perpetual Index under the following subjects
CURRICULUM SCIENCE TRAININGS

Ibj; Division Training on Technology, Pedagogy and Content Knowledge for Elementary School Science Teachers
12 July 2021





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**Division Training on Technology, Pedagogy and Content Knowledge
for Elementary School Science Teachers
July 20-21, 2021**

Matrix of Activities

Date & Time	Activity	Person/s Responsible
July 20, 2021		
7:30-8:15 a.m.	Checking-in in the Online Platform	TWG/Secretariat
8:16-9:30	Opening Program <ul style="list-style-type: none">National AnthemPrayerRegional and Digos City HymnsPresentation of participantsWelcome Message and RationaleMessagePresentation of Training Facilitators, Training Matrix and expected outputInstructions on Activity EvaluationPretest	IT Support/TWG Luzminda B. Jasmin Beverly S. Daugdaug, EdD SDS Cristy C. Epe Luzminda B. Jasmin Eleser Mateo
9:31-9:40	Health Break	
9:41 a.m.- 12:00 nn	Session 1. Inquiry-Based Learning	Floradel M. Dumadag
12:01-12:50	Lunch Break	
12:51-1:00	MOL	Group 1
1:01-3:00 p.m.	Session 2. Developing Basic Science Process Skills through Effective Processing of Learners' Responses	Mishel C. Cadungog, EdD
3:01-3:10	Health Break	
3:11- 5:00 p.m.	Session 3. Problem-Based Learning	Luzminda B. Jasmin
July 21, 2021		
7:30-7:50 a.m.	Checking-in in the Online Platform	Secretariat/TWG
7:50-8:00	MOL	Group 2
8:01-9:55	Session 4. Developmentally Appropriate Language-Based Strategies in Teaching Science	Floradel M. Dumadag
9:56-10:05	Health Break	
10:06-12:00	Session 4. Technology Integration in Learning Science	Luzminda B. Jasmin
12:01-12:50 p.m.	Lunch Break	





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12:51-1:00	MOL	Group 3
1:01-5:00	Session 5. Educational and Digital Tools	Thonver Sampaga Jan Rica Datoc
July 23, 2021		
7:30-7:50 a.m.	Checking-in in the Online Platform	Secretariat/TWG
7:50-8:00	MOL	Group 4
8:01-10:00	Workshop: Lesson Planning	Luzminda B. Jasmin Mishel C. Cadungog, EdD
10:01-12:00	Demonstration Teaching (2 groups-simultaneous)	Luzminda B. Jasmin Mishel C. Cadungog, EdD
12:01-12:59	Lunch Break	
1:00-3:00	Demonstration Teaching (2 groups-simultaneous)	Luzminda B. Jasmin Mishel C. Cadungog, EdD
3:01-4:00	Wrap-up activities: <ul style="list-style-type: none">• Polishing and submission of outputs• Post Test• Activity Evaluation	TWG Facilitators Eleser Mateo
4:00-5:00	Closing Program <ul style="list-style-type: none">• Opening Prayer• Impressions and Take Away• Challenge• Giving of Certificates to Facilitators and TWG• Closing Prayer	Group 5 Assigned Participants Basilio P. Mana-ay, Jr. EdD





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List of Participants

I. Training Team

A. Training Facilitators

1. Luzminda B. Jasmin
2. Mishel C. Cadungog, EDD
3. Floradel M. Dumadag
4. Jan Rica Datoc
5. Thonver Sampaga

B. IT Support/TWG

1. Kim Dela Cruz
2. Marvin Padillo

II. Teacher-Participants

Number of Participants Per School

District	Schools	No. of Participants
DIGOS ORIENTAL DISTRICT	Apalaya ES	3
	Badiang ES	2
	Cogon ES	2
	Dawis ES	2
	DMMES	6
	I. Abalayan ES	2
	Kibanban ES	2
	P. Garcia ES	2
	RMCES	6
	TOTAL	27

DIGOS OCCIDENTAL DISTRICT	Balabag ES	2
	Damnas ES	2
	Digos City CES	6
	Dulangan ES	2
	F. Alferez	2
	J. Alberca ES	2
	Mahayayhay ES	2
	PV. BASALAN ES	2
	Ranao ES	1
	Ruparan ES	2
	TOTAL	23
MT. APO DISTRICT	Apolandia ES	2
	Binaton ES	2
	G. Reusora	2
	Marawer ES	2
	Matti ES	2





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	N. isidro ES	2
	Rizal CES	3
	Soong ES	2
	TOTAL	17
DIGOS SOUTH DISTRICT	A. Maniapao ES	2
	Bagumbuhay ES	2
	C. Nonol ES	2
	D. Abawag ES	2
	Colorado ES	2
	Igpit ES	2
	Lungag ES	2
	RN Saplala ES	3
	San Miguel ES	3
	TOTAL	20
OVERALL TOTAL		87

Prepared by: 
LUZMINDA B. JASMIN
EPS – Science





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DETAILED LEARNING AND DEVELOPMENT PLAN

Title: Division Training on Technology, Pedagogy and Content Knowledge for Science Elementary School Teachers

July 20-23, 2021

Day/Time	Learning Objectives (State what the learner will accomplish in this activity/session)	Session/Activity (Indicate Title of The Activity/Session)	Expected outputs (What will be produced during the activity/session)	Topic/Content Highlights (List of topics, themes, and etc. to be covered in the activity/session)	Teaching/ Learning Methodology (Describe how the session/activity will be conducted to achieve learning objectives)	Nominated facilitator/ Resource Person/ learning Team (identify who will be responsible for delivering/ facilitating the activity/ session)	Resources Needed (Venue, rooms, materials, etc.)
Day 1 (July 20, 2021)	Day 1						
7:30-8:15 a.m.	<ul style="list-style-type: none"> To register participants 	Registration/ Attendance Check				Secretariat	Attendance Link
8:16-9:30 a.m.	<ul style="list-style-type: none"> Conduct the preliminary activities 	Opening Program		Rationale of the 3-day activity Pretest	<ul style="list-style-type: none"> Virtual Session Powerpoint Presentation 	<ul style="list-style-type: none"> Master of Ceremony SDS CID Chief 	Laptop, ppt presentation, Pretest, Google meet link



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	<ul style="list-style-type: none"> To present the rationale of the 3-day activity Conduct of Pretest 				will be displayed during discussion	<ul style="list-style-type: none"> Facilitators 	
9:31-12:00	<p>At the end of the session, the participants are able to:</p> <ul style="list-style-type: none"> state the key features of inquiry-based learning; state the key features of inquiry-based learning; discuss the nature and coverage of each phase of the 7E learning Cycle – Elicit, Engage, Explore, Explain, Elaborate, Evaluate and Extend; Discuss the nature and coverage of 7E instructional 	Talk #1 Inquiry-Based Learning	Designed Inquiry-Based Activity	Types of Inquiry-based learning 7Es model of learning cycle	<ul style="list-style-type: none"> Virtual Session Powerpoint Presentation will be displayed during discussion Workshop- Design an inquiry-based activity 	<ul style="list-style-type: none"> Floradel M. Dumadag 	Laptop, ppt presentation, Google Meet Link, Worksheet through google classroom





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	model. 2. discuss the nature and coverage of each phase of the 7E learning Cycle – Elicit, Engage, Explore, Explain, Elaborate, Evaluate and Extend; 3. Discuss the nature and coverage of 7E instructional model.						
12:00-1:00	Lunch Break						
1:00-3:00 p.m.	At the end of the session, the participants are able to: <ul style="list-style-type: none"> • articulate the basic process skills in science. • apply the different process skills 	Talk # 2 (Developing Basic Science Process Skills through Effective Processing of Learners' Responses)	<ul style="list-style-type: none"> • Reflection of Practice 	Basic Science Process Skills 21 st Century Skills Processing learners' responses	<ul style="list-style-type: none"> • Virtual Session • Interactive Discussions with powerpoint presentation • Simulation of the Processing of learners' responses 	<ul style="list-style-type: none"> • Mishel C. Cadungog, EdD 	laptop, sound system, activity sheets, manila paper, pentel pen





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	<p>in teaching science.</p> <ul style="list-style-type: none"> • apply 21st century skills in the teaching – learning processes. • demonstrate ways in processing the learners’ responses to address gaps in the development of basic skills in science. 						
3:01 – 5:00 p.m.	<p>At the end of the session, the participants are able to:</p> <ul style="list-style-type: none"> • identify the key elements of Problem-Based Learning • determine the processes on 	Talk # 3 (Problem-Based Learning)	Designed Problem-Based Learning Activity (By Group of 2 or 3)	<ul style="list-style-type: none"> • Problem-Based Learning Process 	<ul style="list-style-type: none"> • Virtual Session • Interactive Discussion with powerpoint presentation • Workshop on problem- 	<ul style="list-style-type: none"> • Luzminda B. Jasmin 	Laptop, ppt presentation, Google Meet Link, Activity Sheet on Problem Based Learning





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	how PBL approach is done. <ul style="list-style-type: none"> • get familiarized on the impact of PBL to learners. 				based learning		
Day 2 (July 21, 2021)	Day 2						
8:00–10:00 a.m.	At the end of the session, the participants are expected to: <ul style="list-style-type: none"> • define the role of language in science learning; • describe the connection between language problems and science learning; • explain the role of teachers in lowering the language barrier; and 	Talk # Developmentally Appropriate Language-Based Strategies in Teaching Science	Using Language strategies in the presentation or results/ideas/ Generalization of the Designed IBL Activity	<ul style="list-style-type: none"> • Language barriers • Language Strategies 	<ul style="list-style-type: none"> • Interactive Discussions with powerpoint presentation • Workshop on Language Strategies 	<ul style="list-style-type: none"> • Floradel M. Dumadag 	Laptop, ppt presentation, Google Meet Link Worksheet on Language Strategies





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	<ul style="list-style-type: none"> integrate the language-based strategies in teaching science. 						
10:01-12:00	<p>At the end of the session, the participants are expected to:</p> <ul style="list-style-type: none"> discuss how 21st century skills can be developed in learning Science; demonstrate how the TPACK Framework can be adapted in the integration of technology, pedagogy and content knowledge in teaching; 	Talk #5 Technology Integration in Learning Science		Technology Integration in Learning Science as aligned with the PPST	<ul style="list-style-type: none"> Developing Multiliteracy in the Teaching-Learning Process in Science 	<ul style="list-style-type: none"> Luzminda B. Jasmin 	Laptop, ppt presentation, Google Meet Link
12:01-12:59 PM	Lunch Break						
1:00 – 5:00 p.m.	<p>At the end of the session, the participants are expected to:</p>	Talk # 6 (Educational and Digital Tools)	Lesson with integrated technology	<ul style="list-style-type: none"> Different Educational Tools and 	<ul style="list-style-type: none"> Interactive Discussions 	<ul style="list-style-type: none"> Thonver Sampaga 	Laptop, ppt presentation, Google Meet Link





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	<ul style="list-style-type: none">• Define educational technology and digital tools.• Differentiate web resources and Mobile technologies that can be used in the classroom.• Demonstrate knowledge and skills in utilizing web resources and digital tools in teaching and learning Science.• Design a sample lesson or learning activity using Educational and digital Tools.	Hands-On Activity		Web Resources	<ul style="list-style-type: none">• Hands-on Activity on EdTech Tools and Web Resources	<ul style="list-style-type: none">• Jan Rica Datoc	
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	<ul style="list-style-type: none"> Show appreciation on how educational technologies develop multi-literacies and enhance learning in Science by utilizing the different Educational Technology Tools. 						
Day 3 (July 22, 2021)	Day 3						
8:00-10:00	At the end of the session, the participants are expected to: <ul style="list-style-type: none"> Prepare Lesson plan/Exemplars with strategies to 	Workshop # 1 (Lesson Planning)	Lesson Plan	<ul style="list-style-type: none"> Writing of Lesson Plan 	•	Training Facilitators	Curriculum Guides, laptop, LMs/TMs, Internet Connection





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	develop process skills						
10:00 a.m. - 12:00 nn.	At the end of the session, the participants are expected to: • have done/observed demonstration teaching	Demonstration Teaching		<ul style="list-style-type: none"> • Conduct Demonstration Teaching • Giving feedback on Demonstration teaching 	<ul style="list-style-type: none"> • Demonstration Teaching 	Luzminda B. Jasmin Mishel C. Cadungog, EdD	Lesson Plan, laptop, teaching materials, Google meet link, Class observation Checklist
12:00-1:00		Lunch Break					
1:00-3:00 p.m.	At the end of the session, the participants are expected to: • have done/observed demonstration teaching	Demonstration Teaching		Conduct Demonstration Teaching Giving feedback on demonstration teaching	Demonstration Teaching	Luzminda B. Jasmin Mishel C. Cadungog, EdD	Lesson Plan/Exemplars , laptop, teaching materials, Google link, Class Observation Checklist
3:01-4:00 pm	At the end of the session, the participants are expected to: • have polished and submitted lesson plan and other outputs	Wrap-Up Activity –Polishing and submission of Output, Post Test and Evaluation		Revisit and polish outputs prepared	Output Review Post Test Evaluation	Training Facilitators TWG Mr. Eleser Mateo	Google classroom





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	<ul style="list-style-type: none">Accomplished the posttestEvaluated the Activity						
4:00-4:45 p.m.		<ul style="list-style-type: none">Closing Program		<ul style="list-style-type: none">	<ul style="list-style-type: none">	TWG	Closing Program

Prepared by:

LUZMINDA B. JASMIN
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Reviewed:

BEVERLY S. DAUGDAUG, EdD
Chief ES- CID

