



Republic of the Philippines
Department of Education
REGION II - CAGAYAN VALLEY
SCHOOLS DIVISION OF BATANES

March 27, 2025

DIVISION MEMORANDUM

No. **093**, s. 2025

**DIVISION TRAINING WORKSHOP FOR SECONDARY SCIENCE TEACHERS ON
MASTERING INSTRUMENTATION AND CULTIVATING IMPROVISATIONAL
TEACHING STRATEGIES**

To: Assistant Schools Division Superintendent
Chief Education Supervisors
Secondary School Heads
Secondary Teachers
Other Concern Personnel

1. This Office, through the Curriculum Implementation Division (CID), shall conduct Division **Training Workshop for Secondary Science Teachers on Mastering Instrumentation and Cultivating Improvisational Teaching Strategies** on May 19-21, 2025, at Ivatan Conference Hall, Schools Division Office.

2. This training aims to:

- rationalize the importance of instrumentation and improvisation in developing mastery of essential learning competencies in science.
- design improvised teaching and learning materials/resources using design thinking process for the actual classroom teaching and learning.
- demonstrate skills in instrumentation and improvisation, specifically in the design of physical or digital learning materials for lessons in science and,
- prepare lessons for selected topics in science that utilize physical or digital learning materials.

3. Participants in this activity are secondary science teachers and teachers teaching the subject. The list of participants per school is contained in Enclosure No. 1 while the Activity Matrix is in Enclosure No. 2.

4. Participants are reminded to bring with them their respective laptops and materials for making manipulative teaching materials in science including extension wires for workshops and other activities.



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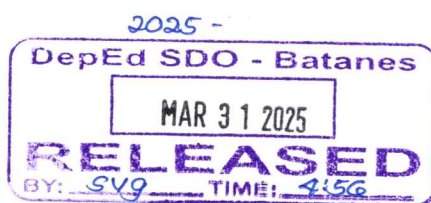
5. Meals and snacks of the participants shall be charged against **HRD Fund /HRD PFS** while their respective travel expenses shall be charged to school local funds subject to usual accounting and auditing rules and regulations.
6. Wide dissemination of this Memorandum to all concerned is desired.

ALFREDO B. GUMARU JR. Ed, D. CESO V
Schools Division Superintendent

Encls: As stated
Reference: RM No. 152, s.2023
To be indicated in the Perpetual Index
Under the following subjects:

JUNIOR HIGH SCHOOL
LEARNING AREA, SCIENCE
TEACHERS
TRAINING PROGRAMS

CID/vbg/jhm



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Enclosure 1: to Division Memorandum No. **093**, s. 2025

List of Secondary Science Teachers-Participants

(May 19-21, 2025)

(Schools Division Office-Ivatan Conference Hall)

No.	NAME	POSITION	SCHOOL
1	Dindo D. Navarro	Master Teacher I	Batanes National Science High School
2	Lilia D. Gavilan	Teacher III	
4	Meryl E. Gallardo	Teacher III	
5	Gerlie Acedo	Teacher I	
6	Christian Jake Salamagos	Teacher I	
7	Edward C. Valiente	SST-I	
8	Mikee Galindez	Teacher III	
9	Hazel Kristine W. Bidayan	Teacher III	
10	Ellen F. Galarosa	Head Teacher-I	
11	John Stephen C. Medrano	Teacher I	Sabtang National School of Fisheries
12	Loriza B. Canela	Teacher III	Itbud Integrated Sch
14	Cathleen Ybay	Teacher III	
15	Judith I. Valiente	Teacher II	Raele Integrated School
16	Jeremiah V. Camacho	Teacher-I	
17	Myrna Intervalo	MT I	Itbayat National Agricultural High School
18	Emilia D. Castro	Teacher III	
19	Godfrey Velayo	Teacher-I	
20	Angelica Garcia	Teacher-I	
21	Marichris Cabalce	Teacher I	Ivana National High School
22	Jethrodon Gacula	Teacher I	
23	Verona Agudo	Master Teacher I	
24	Keith Andrea Cultura	Teacher I	Valugan Integrated School
25	Jenward Ibañez	Teacher-II	
26	Marjorie Munoz	Teacher I	Mahatao National High School
27	Hydee Guillermo	Teacher I	
28	Edmund Delos Santos	Teacher III	BGCHS
PMT			
29	Mary Joy Y. Baldomar	Principal I	BGCHS
30	Analiza B. Duguran	Teacher III	Itbud Integrated School
31	Angelie L. Blanquera	Teacher III	Batanes National SHS
32	John Cristopher Valenzuela	M and E Officer	Schools Division Office
33	Mary Joan B. Arca	Finance Officer	
34	Andrew Arca	Logistics	
35	Kathleen E. Castillo	Welfare Officer	
36	Nida C. Fajardo	Secretariat	
37	Sheila H. Ydel	Documenter	
38	Kym Clyde H. Moro	PRC Secretariat	
39	Jennifer H. Moro	Learning Manager	
40	Violeta B. Gasilao	Program Manager	
41	Dante J. Marcelo CESO-VI	Program Consultant	
42	Alfredo B. Gumar Jr. CESO V	Program Consultant	

**DIVISION TRAINING WORKSHOP FOR SECONDARY SCIENCE TEACHERS ON
MASTERING INSTRUMENTATION AND CULTIVATING IMPROVISATIONAL
TEACHING STRATEGIES**

ACTIVITY MATRIX

DAY 1			
SCHEDULE	SESSION TITLE	DESCRIPTION	RESOURCE PERSON
7:30-8:00 A.M (30 minutes)	Arrival and Registration		Program Management Team
8:00- 8:45 AM (45 minutes)	Opening Program Preliminaries - Philippine National Anthem - Ecumenical Prayer - DepEd Quality Policy Statement - DepEd MATATAG AVP - Acknowledgement of Participants - Activity Norms - Welcome Remarks - Statement of Purpose - Leveling of Expectations - Activity Objectives and Matrix - House Rules and Reminders		Program Management Team
8:45-10:00 AM (120 minutes)	Plenary 1: The TPACK Framework and the ASSURE Model in Teaching and Learning Science	This lecture sets the tone for the training. It will anchor on the framework and model that can be useful in the development of instructional materials. It will highlight the benefits of the use of instruments and improvised materials in the different parts of the teaching-learning process to both teacher and students.	Jennifer H. Moro EPS-Science SDO-CID
10:00-10:15AM (15 minutes)	HEALTH BREAK		
10:15-12:0 NN (120 minutes)	Plenary 2: Improvisation and Developing Improvisational Mindset	This lecture defines the term “improvisation” in the context of science teaching and learning. It will also describe the attitudinal traits (i.e., willingness to explore and experiment,	Ellen F. Galarosa Head Teacher I Batanes National Science High School

		reflexive and reflective thinking, etc.) that must be acquired in order to gain skills and confidence in improvisation and its use in developing innovative, immersive, and effective materials and lessons in science.	
12:00-1:00 (60 minutes)	LUNCH BREAK		
1:00-3:00 PM (120 minutes)	Lecture/Workshop: Instrumentation and Improvisation in Science	This session is a combination of a lecture on various “standard” examples of instruments and improvised materials (categorized as physical and digital) and a workshop where participants get to construct an improvised material and suggest a placement for the said material in a particular lesson (e.g. motivation, exploration, assessment, etc.)	Angelie L. Blanquera Teacher III Regional Trainer Batanes National Science High School
3:00-5:00 PM (120 minutes)	Workshop: Using Instrumentation and Improvisation for Inquiry-Based Lessons	(This is a “traditional” session in inquiry.) In this session, participants will act as students in a simulated lesson that includes instruments and/or learning materials. At the end of the simulation, participants shall determine the appropriateness of the use of instruments and/or improvised materials as well as discuss how the lesson and the materials may be improved.	Analiza B. Duguran Teacher III Regional Trainer Itbud Integrated School
DAY 2			
8:00-10:00 AM (120 minutes)	Workshop: The use of instruments and Improved materials in Assessment	In this session, participants will experience how to use instruments and/or improvised materials for different types of	Mary Joy Y. Baldomar Principal I BGCHS

		assessment (e.g. formative, summative, performance assessment, etc.)	
10:00-12:00 NN (120 minutes)	Workshop: Developing STEM Skills through Student-led Improvisation	In this session, participants will take on the role of students in order to design and construct improvised products that will respond to a particular problem or situation	Jennifer H. Moro EPS-Science SDO-CID
12:00-1:00 (60 minutes)	LUNCH BREAK		
1:00-2:45 (85 minutes)	Plenary: Approaches and Strategies to Experiential Learning in Science	This is a synthesizing lecture describing the various approaches and strategies that utilize instruments and/or improvised materials in their implementation. This lecture particularly emphasizes design thinking (student as “user”) to set the tone for the preparation of the lessons that participants are expected to craft in the next workshop	Jennifer H. Moro EPS-Science SDO-CID
2:45-3:00 PM (15 minutes)	HEALTH BREAK		
3:00-5:00 pm (120minutes)	Workshop: Preparing lessons using instruments and/or improvised materials	Participants will be organized into groups for this session to prepare a lesson (and write the lesson plan) using design thinking steps. Participants will be asked to present an accomplished design thinking template (from empathize to prototype) for critiquing before the session ends.	Angelie L. Blanquera Teacher III Regional Trainer Batanes National Science High School Analiza B. Duguran Teacher III Regional Trainer Itbud Integrated School
DAY 3			
8:00-10:00 AM (120 minutes)	Breakout: Presentation of Outputs	The first two hours may be spent on finalizing group outputs. A criterion (set during the previous day) will be used for critiquing the lesson implementation or presentation)	All with CID Chief Education Supervisor

10:00-10:15 AM (15 minutes)	HEALTH BREAK		
10:15-12:00 (85 minutes)	Presentation of Outputs		
12:00-1:00 PM (60 minutes)	LUNCH BREAK		
1:00-3:00 PM	Continuation: Presentation of Outputs and critiquing Final Instructions Action Planning Evaluation		
3:00-3:15 PM (15 minutes)		HEALTH BREAK	
3:15-4:30 PM		Closing Ceremonies Prayer Nationalistic Song Insights/ Impression Message Awarding of Certificates Group Photo	Batanes National Science High School