



Republic of the Philippines
Department of Education
Region III
SCHOOLS DIVISION OF BULACAN

November 8, 2022

DIVISION MEMORANDUM

No. 418 s. 2022

**DIVISION TRAINING ON DESIGN THINKING IN SCIENCE
AND MATHEMATICS TEACHING**

To: CID and SGOD Chiefs
Public Schools District Supervisors
Elementary and Secondary School Heads
All Others Concerned

1. The division training on Design Thinking in Science and Mathematics Teaching is an offshoot to the regional training on October 2021. The three-day seminar-workshop will be conducted via face-to-face on November 25 – 27, 2022 at Anne Raquel's Hillside Resort, Inc. #1 National Highway, New Cabalan, Olongapo City.
2. The in-service training aims to provide opportunity for K to 12 Science and Mathematics teachers in design thinking as a process in problem solving or in product design.
3. Also, it aims to upskill the participants on the principles of design thinking as an innovative way of teaching problem solving to enhance the higher order thinking skills of learners.
4. The participants are Science and Mathematics teachers of key stages 1 to 4. They should meet the following qualifications:
 - a. Teacher III or Master Teacher for a year;
 - b. mentally and physically fit;
 - c. willing to learn and make the necessary sacrifices for upskilling;
 - d. not retiring from public service for the next 3 years;
 - e. have a performance rating of at least 'Very Satisfactory' for the last school year.
5. Participants are required to bring laptop and relevant teaching resources. Service bus will be provided. It is expected that they will be at the drop-off point of SDO Bulacan on or before 9:00 A.M., November 25, 2022 (Friday).
6. This Division training is approved and certified by the National Educators Academy of the Philippines (NEAP) Regional Office and may be used by the participants for promotion/reclassification of position and Continuing Professional Education (CPD) units.
7. In compliance with DepEd Order No.9 s. 2005, "Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith", the school heads shall assign teachers as substitute in behalf of these personnel to ensure continuous conduct of classes
8. All expenses incidental to the conduct of this division training shall be charged against the Division INSET fund while incidental expenses of the participants shall be charged from local or school funds subject to the usual accounting and auditing procedures.
9. This division training shall be cascaded during the school and cluster learning action cell using face-to-face or hybrid modality as the case may be.
10. Inclosure no.1 includes the training matrix, resource speakers, and technical working group for reference.
11. Immediate and wide dissemination of this Memorandum is desired.

ROWENA T. QUIAMBAO, CESE
Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent

Ref.: Regional Memo No. 399, s.2021
Inclosure No. 1 of DM No. 418 s. 2022

CID/JPB-Division Memo- Division Training On Design Thinking In Science And Mathematics Teaching
00012/November 8, 2022





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A. RESOURCE SPEAKERS /FACILITATORS and WORK COMMITTEE

CHAIR/PROPONENTS	Marinella P. Garcia Sy, PhD DEPS – Science Francisco B. Macale, MS DEPS – Mathematics
Resource Speakers:	Marites SA. Sumalbag, PhD
	Lhio Roem R. Dela Cruz, PhD
	Leilanie O. Feliciano
	Connie R. Pangilinan
TWG/ICT	Charmaine I. Flores
	Meriam H. Roldan
	Renante B. Perez
	Glenda M. De Jesus
	Melchor L. Espiritu, Jr.
	Emmanuel SM. Enriquez





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Department of Education
Region III
SCHOOLS DIVISION OF BULACAN

B. DISTRIBUTION OF PARTICIPANTS IN MATHEMATICS

EDDIS	Key Stage 1 (Grades 1-3)	Key Stage 2 (Grades 4-6)	Key Stage 3 (Grades 7-10)	Key Stage 4 (Grades 11-12)
I	1. Marcelo del Pilar ES (Gr 1) 2. Dona D. De Leon Macam MES(Gr2) 3. Calumpit CS (Gr3) 4. Pugad ES (Gr2) 5. Pinagtulayan ES(Gr1)	1. Sta Ines ES(Gr4) 2. Gugo ES(Gr5) 3. Pascual O. Cruz MES (Gr6) 4. Sta. Monica ES(Gr5) 5. Jose C. Castro MES(Gr4)	1. GGPIS (Gr7) 2. San Roque HS(Gr8) 3. Sta Peregrina HS(Gr9) 4. Engr. Virgilio V. Dionisio MHS(Gr10)	1. San Francisco Xavier (Gr11) 2. San Pedro NHS(Gr11) 3. Bajet Castillo HS(Gr12) 4. Kapitangan HS(Gr12)
II	1. Baliwag North (Gr1)CS 2. Bambang ES(Gr2) 3. Bonga Mayor(Gr2) 4. Sto Nino ES(Gr3))	1. Sipat ES(Gr4) 2. Tarcan ES(gr5) 3. Engr Vicente R. Cruz MS(Gr5) 4. Tibagan ES (Gr6)	1. Dr. Felipe De Jesus NHS(Gr7) 2. Sullivan NHS(Gr9) 3. Tibagan HS(Gr10)	1. Dampol 1st HS(Gr11) 2. Alexis G. Santos NHS(Gr11) 3. Dr. Pablito V. Mendoza MHS(Gr12)
III	1. Sapang Bulac ES(Gr1) 2. Anyatam ES(Gr2) 3. San Ildefonso ES(Gr3) 4. Pasong Bangkal ES(Gr1) 5. Batasan ES(Gr2)	1. Calawitan ES(Gr4) 2. Narra ES(Gr5) 3. Buliran ES(Gr6) 4. Dagat-Dagatan ES(Gr4) 5. Pulong Bayabas(Gr5)	1. Dona Remedios Trinidad HS(Gr7) 2. Carlos F. Gonzales HS(Gr8) 3. Esteban Paulino HS(Gr9) 4. Calawitan NHS(Gr10)	1. Partida NHS(Gr11) 2. San Ildefonso NHS(Gr11) 3. San Miguel NHS(Gr12) 4. Vedasto R. Santiago HS(Gr12)
IV	1. Abangan Sur ES(Gr3) 2. San Pascual ES(Gr2) 3. Northville IV -B ES(Gr1) 4. Binuangan ES(Gr3)	1. Heritage Homes ES(Gr6) 2. Salambao ES(Gr5) 3. Lawa ES(Gr4) 4. Obando CS(Gr6)	1. Prenza NHS(Gr8) 2. Heritage Home Integrated School(Gr9) 3. Obando School of Fisheries(Gr10)	1. AFG Bernardino MTS(Gr11) 2. Obando NHS(Gr12) 3. Prenza NHS(Gr12)
V	1. Balagtas CS(Gr1) 2. Cong Erasmo R. Cruz MS(Gr3) 3. San Antonio Abad ES((Gr3) 4. Tabang ES(Gr2)	1. Dalig ES(Gr4) 2. Northville V ES(Gr6) 3. Baka-Bakahan ES(Gr5) 4. Sto Nino ES(Gr6) 5. Guiguinto CS(Gr5)	1. Bunsuran HS(Gr7) 2. Gat Francisco Balagtas NHS(Gr8) 3. Masagana HS(Gr10)	1. Tiaong NHS (Gr11) 2. Masagan NHS(Gr12) 3. Virginia NHS (Gr11)
VI	1. Bigte ES(Gr 1) 2. M.M. Cruz MS(Gr1) 3. Camachile ES(Gr3)	1. Luis Gravador ES(Gr4) 2. Buenavista ES(Gr4)	1. Minuyan NHS(Gr9) 2. FF Halili NAS (Main(Gr8) 3. Angat HS(Gr7)	1. Norzagaray NHS (Gr12 2. Pulong Buhangin NHS(Gr11) 3. Parada NHS(Gr12)





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Region III

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	4. Coral ES (Gr3) 5. Atilano S. De Guzman ES(Gr2)	3. Dr. Antonio C. Villarama MS(Gr6) 4. San Mateo ES(Gr6)		
Total	28	27	20	20
Grand total	95			





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Region III
SCHOOLS DIVISION OF BULACAN

C. DISTRIBUTION OF PARTICIPANTS IN SCIENCE

EDDIS	Key Stage 1 (Grades 1-3)	Key Stage 2 (Grades 4-6)	Key Stage 3 (Grades 7-10)	Key Stage 4 (Grades 11-12)
I	1. Gen. Gregorio del Pilar IS (G1) 2. F. Mendoza MES (G2) 3. Hagonoy East CS (G1) 4. Hagonoy West CS (G2) 5. Paombong CS (G3) 6. Pulilan CS (G3)	1. Bambang ES (G6) 2. San Marcos ES (G6) 3. Hangga ES (G5) 4. Inaon IS (G4)	1. Calumpit NHS (G7) 2. San Roque NHS (G8) 3. Bajet-Castillo HS (G9)	1. Sta. Lucia NHS (G11) (STEM Science) 2. Frances NHS (G12) (STEM Science) 3. San Pedro NHS (G11) (STEM Science) 4. Sta. Peregrina HS (G12) (STEM Science)
II	1. Baliuag North CS (G3) 2. Baliuag South CS (G2) 3. Bonga Menor ES (G1) 4. Plaridel CS (G1)	1. Dr. G. dela Merced ES (G5) 2. Sta. Barbara ES (G6) 3. Liciada ES (G5) 4. Banga ES (G4)	1. Mariano Ponce NHS (G7) 2. Alexis G. Santos NHS (G8) 3. Aguinaldo J. Santos NHS (G9) 4. Dr. Felipe de Jesus NHS (G10)	1. Baliuag SHS (G11) (STEM Science) 2. Cambaog NHS (G12) (STEM Science) 3. Dampol 1st NHS (G11) (STEM Science)
III	1. San Ildefonso ES (G2) 2. Pinaod CS (G3) 3. San Miguel North CS (G1) 4. Tartaro ES (G1) 5. San Miguel ES (G3) 6. Maguinao ES (G2)	1. Pulong Sampaloc ES (G6) 2. Malipampang ES (G6) 3. Don Felix de Leon MS (G4) 4. Caingin ES (G5) 5. San Roque ES (G4)	1. San Ildefonso NHS (G10) 2. San Miguel NHS (G7) 3. Carlos F. Gonzales HS (G8)	1. Sta. Catalina Bata NHS (G11) (STEM Science) 2. J.J. Russell MHS (G11) (STEM Science) 3. Vedasto R. Santiago HS (G12) (STEM Science) 4. Minuyan NHS (G12) (core Science of any strand) 5. San Miguel NHS (STEM Science)
IV	1. Marilao CIS (G3) 2. Obando CS (G1) 3. Paco ES (G1) 4. Northville IV ES (G2)	1. Prenza ES (G5) 2. San Pascual ES (G4) 3. Lambakin Main ES (G6) 4. FSS Patulo ES (G4)	1. AFG Bernardino MTS (G10) 2. Prenza NHS (G9) 3. Obando NHS (G8)	1. Obando SHS (G12) (STEM Science) 2. Prenza NHS (G12) (STEM Science)
V	1. Balagtas CS (G3) 2. Cong. E.R. Cruz MCS (G3) 3. Guiguinto CS (G2) 4. Bunsuran ES (G1)	1. Northville V ES (G5) 2. Malis ES (G6) 3. Sta. Rita ES (G5) 4. M.C. Bernardo MCS (G4)	1. Balagtas NAHS (G7) 2. Bunsuran NHS (G10)	1. Lolomboy NHS (G11) (STEM Science) 2. F.C Lipana NHS (G11) (STEM Science) 3. Guiguinto NVHS (G12) (STEM Science)



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		5. Pandi Residences ES (G6)		
VI	1. Matias A. Fernando MS (G2) 2. Norzagaray ES (G1) 3. C.M. De Jesus MCS (G3) 4. Sta. Maria CS (G2)	1. Francisco F. Illescas ES (G5) 2. Parada ES (G4) 3. San Vicente Gulod ES (G5) 4. Cay Pombo ES (G4) 5. Guyong ES (G6)	1. Pres. Diosdado Macapagal MHS (G10) 2. Norzagaray NHS (G9) 3. F.F. Halili NAS (G7) 4. Parada NHS (G9) 5. Pulong Buhangin NHS (G8)	1. Sta. Maria NHS (G12) (STEM Science) 2. Catmon NHS (G12) (core Science of any strand) 3. Angel M. Del Rosario HS (G11) (core Science of any strand)
Total	28	27	20	20
G1	10 (SSES)		G7	STE
G2	9 (SSES)		G8	STE
G3	9 (SSES/Regular)		G9	STE
G4	9 (SSES/Regular)		G10	STE
G5	9 (SSES/Regular)			
G6	9 (SSES/Regular)			
Grand Total	95			



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