



Republic of the Philippines  
**Department of Education**

Caraga Region  
**SCHOOLS DIVISION OF SURIGAO DEL SUR**

**Office of the Schools Division Superintendent**

**June 4, 2021**

Division MEMORANDUM

No. 238, s. 2021

To : Public Schools District Supervisors / Districts-in-Charge  
 Secondary School Heads  
 This Division

**DIVISION WEBINAR ON CAPACITATING GRADES 9 & 10 SCIENCE TEACHERS  
 ON PEDAGOGY CONTENT, SUBJECT CONTENT KNOWLEDGE AND  
 CURRICULAR CONTENT KNOWLEDGE IN PHYSICS AND CHEMISTRY**

1. The field is hereby informed of the conduct of the aforementioned activity on **June 9,10,15 & 16, 2021** for Grade 9 Science Teachers and on **June 11,14,17 & 18, 2021** for Grade 10 Science Teachers via Google Meet at 8:00 a.m. to 5:00 p.m. daily as scheduled. The links will be posted 2 days before the schedule dates.
2. This webinar will provide the Grade 9 and Grade10 Science teacher-participants from the selected 60 secondary schools of this division, the training on Pedagogy Content, Subject Content Knowledge and Curricular Content Knowledge in Physics and Chemistry. With this learning management system, the participants shall have the fundamental knowledge in teaching Physics and Chemistry while using the Google platform for training. The online presentations and engagement activities shall be done in sessions. This identified means of learning shall also cater discussions from the resource speakers and participants. Different activities and workshop shall be done. Required outputs shall be submitted while workshops and individual presentations shall be done online.
3. Highly qualified science teachers tend to have students who have higher achievement than students of non-highly qualified teachers. After the said Webinar of the teachers, the plan to increase teacher knowledge and skills to become highly qualified is to have teachers engage in professional development. There is a high level of teacher engagement in professional development enacted as classroom action research because the teacher initiates the research question. The action research design that Science teachers will employ in this endeavor is a mixed methods approach which include identification of a problem, selecting a solution, implementing it, and then evaluating the solution's effectiveness in a continuous spiral of planning, action, and fact finding. Science Teacher-Participants will select a strategy on which to base their action research intervention. At the end of the school year, teacher-participants are required to write a short summary report



Balilahan, Mabua, Tandag City, Surigao del Sur, 8300  
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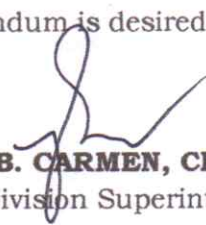
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explaining their research questions, actions taken and the results of their actions on student performance.

4. Immediate and widest dissemination of this Memorandum is desired.

  
**JOSITA B. CARMEN, CESO V**  
Schools Division Superintendent

Encl.: 1) Program Matrix  
(2) Program Management Team  
Reference/s: None  
To be indicated in the Perpetual Index  
under the following subjects:

HRD L&D                      GRADE 9&10 TEACHERS                      PEDAGOGY CONTENT

**EET/DM- DIVISION WEBINAR ON CAPACITATING GRADES 9 & 10 SCIENCE TEACHERS  
ON PEDAGOGY CONTENT, SUBJECT CONTENT KNOWLEDGE AND CURRICULAR  
CONTENT KNOWLEDGE IN PHYSICS AND CHEMISTRY**

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Enclosure 01 of Division Memorandum No. 2316, s. 2021

**DIVISION WEBINAR ON CAPACITATING GRADES 9 & 10 SCIENCE TEACHERS  
 ON PEDAGOGY CONTENT, SUBJECT CONTENT KNOWLEDGE AND  
 CURRICULAR CONTENT KNOWLEDGE IN PHYSICS AND CHEMISTRY**

**GRADE 9 SCIENCE TEACHERS**

Date/Time	Topic/Activity	Responsible Person/s
<b>DAY 1-June 9, 2021</b>		
8:00 a.m. – 12:00 noon	<b>Preliminaries</b>	
	- Prayer - Nationalistic Song/ Philippine National Anthem	
	- Opening Remarks	<b>GILBERT L. GAYRAMA, CESE</b> Assistant Schools Division Superintendent
	- Inspirational Message	<b>JOSITA B. CARMEN, CESO V</b> Schools Division Superintendent
	- Statement of Purpose	<b>CELSA A. CASA, PhD</b> CID Chief Education Supervisor
	- Orientation	<b>EDNA E. TRINIDAD, EdD</b> Education Program Supervisor I
	- House Rules - Acknowledgement of Participants - Pre Test	<b>ANALOU DEMETRIA</b> T 1- Unidad NHS
1:00- 2:30 p.m.	<b>Session 1</b> Uniformly Accelerated Motion	<b>Christopher Christian S. Braza</b>
2:30- 4:00 p.m.	<b>Session 2</b> Components of a Projectile Motion	<b>Christopher Christian S. Braza</b>
4:00 – 5:00 p.m.	<b>Workshop 1 for sessions 1 &amp; 2</b>	<b>Christopher Christian S. Braza</b>
<b>DAY 2- June 10, 2021</b>		
8:00 -8:30 a.m.	Management of Learning	
8:30 – 10:00 a.m.	<b>Session 3</b> Projectile Motion	<b>Ric Me D. Diaz</b>
10:00- 11:45 a.m.	<b>Session 4</b> Impulse and Momentum	<b>Ric Me D. Diaz</b>



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1:00 – 2:30 p.m.	<b>Workshop 2</b> for sessions 3 & 4	<b>Ric Me D. Diaz</b>
2:30 – 4:00 p.m.	<b>Session 5</b> Work, Power, and Energy	<b>Ric Me D. Diaz</b>
4:00 – 4:30 p.m.	Reflection Journal	
<b>DAY 3- June 15, 2021</b>		
8:00 – 8:30 a.m.	Management of Learning	
8:30 – 10:00 a.m.	<b>Session 6:</b> Heat, Work, and Energy	<b>Marvin T. Tejano</b>
10:00 – 12:00 noon	<b>Session 7</b> Energy transformation of heat engines	<b>Marvin T. Tejano</b>
1:00- 3:00 p.m.	<b>Workshop 3</b> for sessions 5, 6 & 7	<b>Ric Me Diaz /Marvin Tejano</b>
3:00 – 4:45 p.m.	<b>Session 8-</b> Electrical energy	<b>AR A. Ranesis</b>
4:45 – 5:00 p.m.	Reflection Journal	
<b>DAY 4- June 16, 2021</b>		
8:00- 8:30 a.m.	Management of Learning	
8:30- 10:00 a.m.	<b>Session 9 –</b> Electrical energy generation, transmission and distribution	<b>AR A. Ranesis</b>
10:00– 11:45 a.m.	<b>Workshop 4</b> for sessions 8 and 9	<b>AR Ranesis</b>
1:00- 2:15 p.m.	<b>POST TEST</b>	
2:30 – 3:15 p.m.	Reflection Journal	
3:15 – 4:30 p.m.	<b>Closing Program</b>	
	- Impressions  - Closing Remarks  - Prayer	<b>2 Selected participants</b>  <b>CELSA A. CASA, PhD</b> <b>CID Chief</b>



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**GRADE 10 SCIENCE TEACHERS**

Date/Time	Topic/Activity	Responsible Person/s
<b>DAY 1-June 11</b>		
8:00 a.m. – 12:00 noon	<b>Preliminaries</b>	
	- Prayer - Nationalistic Song/ Philippine National Anthem	<b>GILBERT L. GAYRAMA, CESE</b> Assistant Schools Division Superintendent
	- Opening Remarks	<b>JOSITA B. CARMEN, CESO V</b> Schools Division Superintendent
	- Inspirational Message	<b>CELSA A. CASA, PhD</b> CID Chief Education Supervisor
	- Statement of Purpose	<b>EDNA E. TRINIDAD, EdD</b> Education Program Supervisor I
	- Orientation	<b>VENESSA M. SUMABAT</b> T 3- Anibongan NHS
	- House Rules - Acknowledgement of Participants - Pre Test	
1:00- 2:30 p.m.	<b>Session 1</b> Boyle's Law	<b>Myra Joy B. Montero</b>
2:30- 4:00 p.m.	<b>Session 2 -</b> Charles Law	<b>Myra Joy B. Montero</b>
4:00 – 5:00 p.m.	<b>Workshop 1</b> for sessions 1 & 2	<b>Myra Joy B. Montero</b>
<b>DAY 2- June 14</b>		
8:00 -8:30 a.m.	Management of Learning	
8:30 – 10:00 a.m.	<b>Session 3 – Kinetic Molecular Theory</b>	<b>Pamela Lou C. Suazo</b>
10:00- 11:45 a.m.	<b>Session 4 – Biomolecules</b>	<b>Cristobert C. Ayaton</b>
1:00 – 2:30 p.m.	<b>Workshop 2</b> for sessions 3 & 4	<b>Pamela Lou C. Suazo and Cristoert Ayaton</b>
2:30 – 4:00 p.m.	<b>Session 5-</b> Lipids, Proteins and Nucleic Acids	<b>Cristobert C. Ayaton</b>
4:00 – 4:30 p.m.	Reflection Journal	
<b>DAY 3- June 17, 2021</b>		



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8:00 – 8:30 a.m.	Management of Learning	
8:30 – 10:00 a.m.	<b>Session 6</b> – Chemical Reactions	<b>Pamela Lou C. Suazo</b>
10:00 – 12:00 noon	<b>Session 7</b> - Types of Chemical Reactions and Balancing Chemical Equations	<b>Myra Joy B. Montero</b>
1:00- 3:00 p.m.	<b>Workshop 3</b> for sessions 5, 6 & 7	<b>Cristobert C. Ayaton</b> <b>Myra Joy B. Montero</b> <b>Pamela Lou C. Suazo</b>
3:00 – 4:45 p.m.	<b>Session 8</b> - Factors Affecting Rates of Chemical Reaction	<b>Ryan Paul M. Vales</b>
4:45 – 5:00 p.m.	Reflection Journal	
<b>DAY 4- June 18, 2021</b>		
8:00- 8:30 a.m.	Management of Learning	
8:30- 10:00 a.m.	<b>Session 9</b> – Rates of Chemical Reactions	<b>Ryan Paul M. Vales</b>
10:00– 11:45 a.m.	<b>Workshop 4</b> for sessions 8 and 9	<b>Ryan Paul M. Vales</b>
1:00- 2:15 p.m.	<b>POST TEST</b>	
2:30 – 3:15 p.m.	Reflection Journal	
3:15 – 4:30 p.m.	<b>Closing Program</b>	
	- Impressions  - Closing Remarks  - Prayer	<b>2 Selected participants</b>  <b>CELSA A. CASA, PhD</b> <b>CID Chief</b>



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Enclosure 02 of Division Memorandum No. 288, s. 2021

**PROGRAM MANGEMENT TEAM**

Position	Name of In-charge	Terms of Reference
<b>Program Manager</b>	<b>EDNA E. TRINIDAD</b>	The Program Manager prepares the design proposal and all its attachments, serves as the overseer of the event, compiles all Curriculum Vitae and Resource Packages prepared by the Learning FacilitatorS, and finalizes the Completion Report.
<b>Training Managers</b>	<b>CHRISTOPHER CHRISTIAN BRAZA &amp; PAMELA LOU SUAZO</b>	The Training Managers focus on the actual activity, particularly in the lectures and workshops, to ensure that the program is implemented as planned.
<b>Logistics Manager</b>	<b>MARVIN MINGUILLAN</b>	The Logistic Manager shall ensure that this virtual activity shall be aired in the FB page based on the program matrix and shall coordinate with the responsible people thereto.
<b>QATAME Associate</b>	<b>VOLTAIR C. ASILDO</b>	The QATAME Associate shall prepare the M&E tool that will be used and forward the link to the HRD for dissemination, and forwards update to the Documenter about the responses during the event.
<b>Training Facilitators</b>	* <b>CHRISTOPHER CHRISTIAN S. BRAZA</b> * <b>AR A. RANESIS</b> * <b>RIC ME D. DIAZ</b> * <b>MARVIN T. TEJANO</b> * <b>RYAN PAUL M. VALES</b> * <b>PAMELA LOU C. SUAZO</b> * <b>MYRA JOY . MONTERO</b> * <b>CRISTOBERT AYATON</b>	The Training Facilitators shall prepare their Resource Package and submit to the HRD for quality assurance.
<b>Documenters</b>	<b>ANALOU T. DEMETRIA</b> & <b>VENESSA M. SUMABAT</b>	The documenters shall document all the highlights of the activity/training and arrange them with caption to form part of the Completion Report, and prepares minutes of the event when needed. The secretariat shall prepare the Attendance Sheet, ensure that the details on the List of Participants are correct, check the Pre-Test and Post Test and prepare the List of Scores, and print updates on M&E, when needed.



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