STEM Learning through radio and online in the post ECQ period

Prior to SARS- ucational activities to al- processing more complex to appreciate science be- readings, and home-based (DOST-SEI)

These facilities bring gy of online teaching and students and teachers to science and laboratory ex- learning. These frequent enrich their STEM learn- areas, but this is not the Statistics Authority data. Siyensya, a radio program periences to the students disruptions in the formal ingeven when they're out- case for the students in in different parts of the schooling of K-12 stu- side the confines of their many disadvantaged areas no access to internet, tele- ry-based science lessons country. However, with dents, greatly impede the classrooms and in effect in the country who do not vision, and mobile com- to be aired by a network the current situation where learning of basic concepts promote STEM careers. have access to reliable in- munication have been of community radio which mobility is limited and so-necessary in building a cial distance needs to be strong foundation for high- elementary students, espe-, and whose family may mation. The basic yet per- of DOST-SEI in imple-

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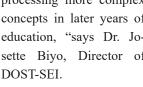
CoV-2 virus and Enhanced most a complete halt, with concepts in later years of Community Quarantine most schools compressing education, "says Dr. Jo-(ECQ) period, some stu- the academic curricula to sette Biyo, Director of dents in the provinces get take home assignments, DOST-SEI.

To ensure that the cause of the Science Ex- activities. Children are left students' learning will not plorer and nuLab buses to the guidance of their be hampered by the current of the Science Education parents, doing written ac- national health situation, Institute of the Department tivities using workbooks/ DOST-SEI is developing of Science and Technology worksheets, or for urban supplemental education reschools, to the technolo- sources that will enable the

DOST-SEL be collaborating with he Department of Education (DepEd) to enhance STEM learning for elementary students through their RadyoEskwela sa Siyensya and for high school students through TuklaSiyensya sa Eskwela programs. These programs will be on the roll in time for the opening of classes this school year.

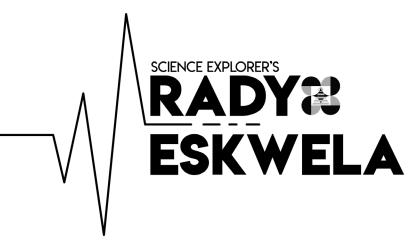
RadyoEskwela for elementary students

Why "balik radyo?" Radio remains as the most accessible medium in the rural area. It has proven to be an effective educational channel in the past when used in combination with classroom learning and/or printed learning materials. Online learning may be feasible



This school year, ternet connection at home relying on radio for infor- will be the media partner cially in the remote areas not own tablets, laptops vasive mass-based chan- menting this project for the "Learning the basics of the country which do or computers . For these nels and approaches again students. RadyoEskwela But this does not mean that in science, technology, en- not have a reliable inter- school population, infor- become useful in the de- consists of twenty (20) students' learning will also gineering and mathematics net connection, and high mation comes from the livery of science education 30-minute episodes which or STEM at the pre-sec- school students who have radio, which is considered for school age children in are story-based and pro-Natural disasters and ondary level is consid- access to the internet, will to be the second most-used the countryside. recently even public health ered foundational in that be able to learn the scienc- media, reaching 85 percent This school year, and intermediate clustered crises have brought all ed- it serves as the pillars for es even when they're at of Philippine households, grade school students can grade levels. The episodes

to students in the urban



Communities with which will feature sto-

according to the Philippine listen to RadyoEskwela sa

City Government of Imus



PUBLIC ADVISORY

Simula sa darating na HUNYO 28, 2020, ang Imus Public Market at Bahayang Pag-asa Public Market ay magbubukas hanggang 1:00 ng hapon (half day) tuwing araw ng Linggo para sa mga mamimili

Kaugnay nito, mahigpit pa rin nating ipinatutupad ang pagsusuot ng face mask at physical distancing sa loob at labas ng mga pamilihan.

Ang tanggapan ng Economic Enterprise Management Office (City Market of Imus) ay patuloy ding magsasagawa ng mga health and safety protocol para sa kaayusan at kaligtasan ng lahat.



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LGUS placed 112 areas under localized lockdown - DILG

The Department of the Interior and Local Government (DILG) said today that 112 areas all over the country have been placed by their respective Local Government Units under localized or granular lockdown showing that LGUs have been implementing the LGUled zoning containment strategy developed by the National Task Force against COVID-19.

According to DILG areas in the country as of to be effective especially it surgically targets areas community-level. where cases either posi-

containing COVID-19 as can be contained on the since the hot zones areas ly issued the Operational been placed under local-

112 locally quarantined which has been proven Año says.

The National Task centrated. He says that the COVID-19 at its source to other communities," tional Action Plan against (CAR); 18 in National 7 municipalities, 51 ba-COVID-19.

EMERGENCY OPERATIONS CENTER NEW EOC COVID-19 RESPONSE HOTLINE

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CITY HEALTH OFFICE

DILG Undersec- City, 1 each in Cavite, Secretary Eduardo M. June 21 prove that with in the 112 areas where it Force Against COVID-19 retary and Spokesperson Quezon Province, Leyte, Año, localized lockdown proper implementation, the is currently being imple- led by Defense Secretary Jonathan Malaya said that and 5 in Cagayan de Oro is the best approach in spread of the coronavirus mented. It really works Delfin Lorenzana recent- of the 112 areas that have City, are secluded from the rest Guidelines on the applica- ized lockdown as of June which have carried out or "Localized lock- of the community, hence, tion of the zoning strategy 21, 67 are in the Cordil- are carrying out localized tive or suspected, are con- down is like hitting stopping the transmission in implementing the Na- lera Autonomous Region lockdown encompassing

Capital Region, 19 in Cebu rangays, 1 purok, 1 subdivision, 2 buildings, and 5 zones within Mt. Province, Province of Apayao, Kalinga, Ifugao, Abra, Benguet, and Baguio City.

Malaya said that the decision of the LGUs to put their barangays under localized lockdown is "contributory to the low number of positive cases in CAR." As of this writing, CAR only has 109 confirmed COVID-19 cases, 62 of which are active while 42 cases have already recovered. It currently has a 1.8% case fatality

Meanwhile, COVID-19 hotspots such as the National Capital Region (NCR) and Cebu City have 18 and 19 areas that have been placed under localized lockdown, respec-(Turn to page 2)

City Government of Imus

For the safety of our drivers and passengers, the City Government of Imus continue to conduct an inspection with the Tricycle Regulatory Unit (TRU) at the city tricycle terminals along with the distribution of face masks and thermal scanners to ensure that they are following the following of these appointed health protocol and other rules implemented.





City Government of Bacoor

Reminder that our city is still in community quarantine, and we need to follow protocols for everyone's safety. Let's help CICU and PNP implement the protocols for staying in our homes.

Yesterday, PNP and CICU were caught again hanging out in public places and tively. In NCR, Quezon tions and interventions no riding a motorcycle. They also continue to remove basket rings from courts in San Nicolas 1 and 2, and Greenpoint Mambog 4



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LGUS placed 112 areas under localized lockdown - DILG

(From page 1) placed under localized and cost-effective. quarantine; 9 in Parañaque bon City.

and are under strict lock- jectory," he said. down: Sambag II; Kam-

scale containment opera- localized lockdown."

each in Muntinlupa City, led containment strategy (QRTs) that shall carry out Navotas City, and Mala- where LGUs could moni- the test-trace-treat strategy In Cebu City, there curately in their respective lockdown areas. "Mahirap are 19 containment zones areas and allow them to din naman yun basta-basta including Sambag II, Punta adopt a calibrated response lang tayo magdeclare ng Princesa, Tejero, and Inay- that can adapt to emerg- localized lockdown with awan. The following ba- ing conditions in their ar- no system in place." rangays, on the other hand, eas, enabling them to stay were identified as hotspots ahead of the outbreak tra- QRTs to be organized in-

puthaw; Sambag 1; Basak person said that LGUs, syndromic surveillance); San Nicola; Mabolo; Gua- with the concurrence of Disinfection Teams; Swabdalupe; Lahug; Duljo Fati- their regional IATF, are bing Teams; Contact Tracma; Tinago; Tisa; Ermita; encouraged to place areas, ing Teams; Medical Evacand Tejero. Malaya said may it be a street, purok, uation Teams; Law and that since the beginning barangay or the whole city Order Teams; Barangay of the GCQ/MGCQ, the or municipality under lo- Health Emergency Renational government has calized lockdown 'if the sponse Team (BHERTS) shifted to the zoning con- numbers and data point and Social Amelioration/ tainment strategy since the towards that direction.' Support Teams. Said teams COVID-19 cases being re- "LGUs must do all neces- will be stationed at the Muported now are clustered in sary precautionary mea- nicipal/City Level Emerseveral municipalities and sures for the safety of their gency Operations Center communities, making large constituents including the (EOC). Source: DILG

Meanwhile, he re-

City has 4 areas have been longer feasible, efficient, minds LGUs which impose localized lockdown "Thus, the NTF that they must have orga-City; 2 in Caloocan City; 1 saw the need for an LGU- nized quick response teams tor the pandemic more ac- against COVID-19 in the

> He says that the clude: Health Promotion The DILG Spokes- and Prevention Team (for

MINDANAO RESEARCHERS **DEVELOP VITAMIN A-ENRICHED** NOODLES FROM ALUGBATI

Do you know that in crude ash and crude pro- most preferred. Noo-dles wheat flour to make egg This is the reason why nutrient content.

University of the Philip-

leaves are relatively high tion level of 15% was the (Turn to page 3)

alugbati can be utilized in

Finding intrinsic val- food forti-fication and en- cy (VAD) remains one of ue in this vegetable, a team richment in certain prod- the three common forms of researchers from the ucts, such as noodles. of malnutrition worldwide, Normally, egg noo- the other two being iron pines Mindanao developed dles are made of wheat deficiency anemia and ioa product using alugbati flour, eggs, and water. The dine deficiency disorder. leaves powder, which is a study substituted wheat According to the National good source of vitamin A, flour with 10%, 15%, Nutrition Survey, despite as an ingredient in fresh and 20%, respectively of the declining mortality alugbati leaves powder rate caused by VAD in the Studies have re- in the for-mulation. Re- Philippines, the overall ported that fresh alugbati sults show that a substitu- prevalence rate of VAD in-

other than being added to tein, which signifies that it can be used as carriers of Filipinos' favorite mon- has a high mineral content nutrients if plant-based or ggo or ensalada, alugbati that can help address pro- animal-based ingredients can also be combined with tein energy malnutrition. are added to enhance their Vitamin A Deficien-

June 29 - August 5, 2020

MINDANAO RESEARCHERS **DEVELOP VITAMIN A-ENRICHED** NOODLES FROM ALUGBATI



(From page 1) to 6.1% in 2013.

Incidentally

ed vitamins and minerals searchers, explained. needed for growth and develop-ment, leads to stunt- sion of the article, visit ing, wasting, and other the Philippine Journal of severe illnesses especially Science (PJS). It can also among children and preg- be accessed through this

"Consuming

creased from 5.9% in 2008 help provide the recommended dietary al-lowance pre- of vitamin A especially school children have a for children, pregnant and VAD prevalence rate of lactating women, and the 20.4%. Micronutrient de- elderly," Kriza Faye A. ficiency, the lack of need- Calumba, one of the re-

For the full ver-

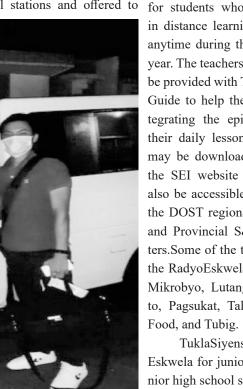
alugbati egg noodles can S&T Media Service)

pjs_pdf/vol149no2/utilization of alugbati leaves. pdf. PJS is a publication of the Science and Technology Information Institute of the Department of Science and Technology (DOST-STII). DOST also has testing facili-ties in its regional offices nationwide that provide technical assistance to those who wish to venture into technology-based businesses. (Geraldine Bulaon-Ducusin,

the Town Government of Carmona distributed the supplies of complete washable isoation gown, disposable isolation gown, face shield, N95 mask, face mask and gloves for complete supplies to the 27 members of Carmona Dental Circle. This is part of the donations given to Carmona Town Government. Thank you so much!

STEM Learning through radio and online in the post ECQ period

(From page 4)

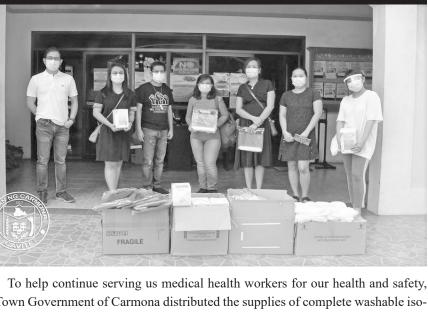


Provincial Government of Cavite through the Provincial Tourism and Culturdesigned as both a sup-careers in the STEM fields. tiatives in the area of S&T al Affairs Office (PTCAO) along with the City and Municipal Tourism Offices remain in coordination with the Department of Tourism (DOT) for the returning Caviteños who are stranded in different regions due to the coronavirus disease (COVID-19) pandemic. On May 23, 2020, a total of 12 domestic travelers (DTs) availed the sweeper bus from Leyte to Centri Station in Quezon City. The transport service going to their dents and STEM career for 30-45 minutes. These be developed on top of respective hometowns were provided by PTCAO and LGUs of Bacoor and Imus. On promotions package. The lessons will be uploaded to it. RadyoEskwela and the same day, a sweeper flight from Cebu City arrived at the Ninoy Aquino International Airport Airport Terminal 4 with 35 DTs on board. Upon arrival at the airport, help students adapt to the it available for access to the way for students and they were assisted by the LGUs of Alfonso, Bacoor, Cavite City, General Emilio Aguinaldo, General Trias, Imus, Kawit, Noveleta, Indang, Trece Martires, and Tagaytay. Returning DTs expressed their gratitude to everyone for bringing them home safely. Likewise, the DOT and LGUs have ongoing monitoring and coordination for the amidst the post ECQ. On- aerospace engineering, "new normal." (Geraldine stranded foreign tourists in the country. Source: cavite.gov.ph

the Department of Educa- duced using the facilities ography, and nanotechnollink http://philjournalsci. may be replayed by region- tion as learning resources available at the nuLab and ogy, among others. The $the \ dost.gov.ph/images/pdf/ \ al \ stations \ and \ offered \ to \ for \ students \ who \ will \ be \ based on the existing mod- other good thing about this properties of the properties of$ in distance learning mode ules developed by young project is that, not only are anytime during the school scientists and scholars the students' learning enyear. The teachers will also who will also serve as fa-riched, but that the teachers be provided with Teacher's cilitators. It will feature also get to enhance their Guide to help them in in- engaging presentations by teaching skills because tegrating the episodes in the scientist-facilitators, they will be provided with their daily lessons. These process demonstations, fifteen (15) Teachers Guide may be downloaded from animations, and post view- to be published online by the SEI website and will ing activities to enrich stu- DOST-SEI or reproduced also be accessible through dent's learning experience as low-cost printed matethe DOST regional offices and inspire them to explore rials by DOST Regional Mikrobyo, Lutang, Insek-

plement to the traditional

and Provincial S&T Cen- natural phenomenon or Offices. Both teachers and ters. Some of the topics for know more about a partic- students learn from adaptthe RadyoEskwela include ular STEM discipline. ing to this online platform. Results of project The country may have to, Pagsukat, Tala, Street evaluation reveal how the been caught unaware by scientists who facilitate the COVID virus, and it TuklaSiyensya sa nuLab and Science Ex- is not certain until when Eskwela for junior and se- plorer modules are able to some areas will remain in nior high school students influence the participants quarantine, but what is cer-TuklasSiyensya is in their choice of future tain is that the earlier ini-TuklasSyensya will education is built on solid earning method for junior produce fifteen (15) sci- ground, strong enough and senior high school stu- ence lessons, each running that other initiatives can modules are designed to an online platform, making TuklaSyensya are paving "new normal" and ensure formal and informal learn- teachers to not just cope, their continuous learning ers anytime. Topics include but creatively adapt to the line modules will be pro- geological hazards, ocean- B. Ducusin, DOST-STII)



Municipality Carmona, Cavite