



ASSIGNMENT GUIDE

Course No.	BEEd 133 AC 132 FIL 133 BPed 134 M 134 SocSt 1314 RVEd 1311
Descriptive Title	Technology for Teaching and Learning 2 (across all specializations)
Instructor's Name	Gerome H. Bautista
Assignment Title	Documentary on a Sustainable Nueva Vizcaya
Course Learning Outcome/s	CLO3: develop project-based and problem-based learning opportunities with unit planning
Submission Date	_____ (to be discussed with the students)

Description	In this assignment, pre-service teachers will follow the process of project-based and problem-based learning to document SDG-related problems in the province and suggest solutions.
Procedures	<ol style="list-style-type: none">1. The class will be divided into 10 groups for the pre-selected UN Sustainable Development Goals (SDGs):<ol style="list-style-type: none">a. SDG 2 – Zero Hungerb. SDG 3 – Good Health and Well-beingc. SDG 4 – Quality Educationd. SDG 5 – Gender Equalitye. SDG 6 – Clean Water and Sanitationf. SDG 7 – Affordable and Clean Energyg. SDG 8 – Decent Work and Economic Growthh. SDG 12 – Responsible Consumption and Productioni. SDG 13 – Climate Actionj. SDG 14 – Life Below Water2. The group must research, observe, or interview a selected community (within Nueva Vizcaya) about the issues related to the SDG assigned.3. From this, a story (background) must be formulated.4. The story will help define the problem to be addressed.

5. After data gathering and defining the problem, the group must also interview experts who can help with the problem and do further research to brainstorm various solutions.
6. Among the different solutions, highlight ONE that must be done first.
7. You are going to package your output in an infographic (3ft by 4ft).
8. The infographic must include the essential elements/logo for UN SDGs.

Standards of Excellence

Rubric for Infographic or Poster

Career Title: _____

Task Description: Design an infographic or poster of the chosen career.
Include the following information:

- Duties
- Education
- Jobs
- Pay
- Other occupations
- Work schedules

Infographic:
<http://piktochart.com/>

Criteria	Weight	Exceptional	Admirable	Marginal	Unacceptable
Content	50%	<input type="checkbox"/> Appropriate details support main idea <input type="checkbox"/> Accurate and detailed information <input type="checkbox"/> Information adequately supports purpose of visual	<input type="checkbox"/> Most details support main idea <input type="checkbox"/> Accurate information for almost all subject matter <input type="checkbox"/> Information is mostly adequate and supportive of visual's purpose	<input type="checkbox"/> Few details support main idea <input type="checkbox"/> Lacking accurate information <input type="checkbox"/> Inadequate information is not clearly supportive of visual's purpose	<input type="checkbox"/> No details to support main idea <input type="checkbox"/> Information is not accurate <input type="checkbox"/> Information does not support the visual's purpose
Focus	20%	<input type="checkbox"/> Topic and title clear and easily identified <input type="checkbox"/> Main idea is clearly appropriate to topic <input type="checkbox"/> All illustrations complement purpose of visual	<input type="checkbox"/> Topic and title are mostly clear and easily identified <input type="checkbox"/> Main idea is appropriate to topic <input type="checkbox"/> Most illustrations complement purpose of visual	<input type="checkbox"/> Topic and title difficult to identify <input type="checkbox"/> Main idea not clearly stated <input type="checkbox"/> Few illustrations complement purpose of visual	<input type="checkbox"/> Topic and title are not clearly identified <input type="checkbox"/> No main idea <input type="checkbox"/> Illustrations do not complement purpose of visual
Visual Appeal	20%	<input type="checkbox"/> Outstanding use of color, design, and space <input type="checkbox"/> Original and creative design <input type="checkbox"/> Overall design is pleasing and harmonious	<input type="checkbox"/> Adequate use of color, design, and space <input type="checkbox"/> Design is adequate <input type="checkbox"/> Overall design is mostly pleasing and harmonious	<input type="checkbox"/> Inappropriate use of color, design, and space <input type="checkbox"/> Design lacks creativity <input type="checkbox"/> Lack of harmonious design in presentation	<input type="checkbox"/> Little attempt to use color, design and space appropriately <input type="checkbox"/> Design is dull <input type="checkbox"/> Project has sloppy appearance
Mechanics	10%	<input type="checkbox"/> Free of grammatical errors <input type="checkbox"/> Words are legible and pertinent to topic	<input type="checkbox"/> Mostly free of grammatical errors <input type="checkbox"/> Most words are legible and pertinent to topic	<input type="checkbox"/> Frequent grammatical errors <input type="checkbox"/> Presentation is illegible and confusing	<input type="checkbox"/> Too frequent grammatical errors <input type="checkbox"/> Distractive elements make illustration ineffective

Assignment Score _____ + Beyonder/Bonus _____ = Final Score _____

Suggested Tools/Resources

- ✓ <https://www.ulap.net.ph/13-resources/knowledge-products-reports/758-building-the-blueprint-localizing-the-sustainable-development-goals-in-the-philippines.html>
- ✓ <https://sdgs.un.org/goals>

Rubric for Infographic or Poster

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Name _____ Period _____ Date _____

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ZERO HUNGER | SUSTAINABLE DEVELOPMENT GOALS



2 ZERO HUNGER



The goal is to end global hunger by providing nutritious food to everyone, especially the most vulnerable.

HUNGER AND FOOD INSECURITY IN THE PHILIPPINES

Hunger in the Philippines mainly affects the poorest, who heavily depend on agriculture and rendering them especially susceptible to severe weather events and the devastation brought about by natural disasters.



PROBLEM: FOOD INSECURITY AND SURPLUS

I. LGU's in Nueva Vizcaya are encouraged to buy the surplus crops of farmers through the Sagip Saka Law (Inquirer.net).

II. "Masakit sa pakiramdam ng farmer na ganoon ang mangyari. Dapat 'yung gobyerno, parang sila ang kumukuha ng gulay namin, sila ang magbenta," tomato farmer Samuel Sinak-ay said.

III. Surplus tomatoes in Ambaguio have been disregarded on the side of the road and are regarded as rejects (Gma Integrated News).

HOW CAN WE HELP ALLEVIATE FOOD INSECURITY AND SURPLUS IN AREAS OF NUEVA VIZCAYA MOST ESPECIALLY IN AMBAGUIO AND IFUGAO?

FUND RAISING:

Fundraising unites people and organizations to combat hunger, raise awareness, and build a food-secure world. It empowers farmers to turn surplus crops into income and supports food rescue initiatives.

FOOD RESCUE:

Food rescue reduces food waste and fights food insecurity by redistributing surplus crops from farmers to food banks and creating new marketable products for those in need.



TUGADI TAYSA LAGUTAN PACULLA

GOOD HEALTH AND WELLBEING



"Ensure healthy lives and promote well-being at all ages."

3 GOOD HEALTH AND WELL-BEING



WHAT IS HIV/AIDS?

HIV/AIDS stands for human immunodeficiency virus/acquired immunodeficiency syndrome. HIV is the virus that attacks the body's immune system, making it difficult for the body to fight off infections and diseases. AIDS is the late stage of HIV infection, when the immune system is severely damaged and the person is at risk of developing life-threatening infections.

WHY DOES HIV/AIDS REMAIN A SIGNIFICANT PROBLEM IN THE PHILIPPINES DESPITE THE PRESENCE OF SDG NO. 3 PROMOTING GOOD HEALTH AND WELL-BEING?



LACK OF AWARENESS AND EDUCATION

Many people in the Philippines are still not aware of HIV/AIDS: **how it is transmitted**, and **how to prevent it**.



BARRIERS TO HEALTHCARE SERVICES

HIV/AIDS is still a highly stigmatized disease in the Philippines, and people living with HIV (PLHIV) often face discrimination most especially in healthcare services.



PERVASIVE STIGMA AND DISCRIMINATION

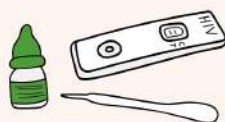
PLHIV may often face barriers such as long wait times, lack of availability of HIV testing and treatment, and high cost of treatment.

Pervasive stigma and discrimination against people living with HIV (PLHIV) in the Philippines leads to lower rates of HIV testing, treatment, and higher rates of morbidity and mortality.

SOLUTIONS



EDUCATE THE PUBLIC ABOUT HIV/AIDS



PROMOTE HIV TESTING AND TREATMENT



PROVIDE SUPPORT SERVICES FOR PLHIV



EMPOWER PLHIV TO SPEAK OUT AGAINST STIGMA AND DISCRIMINATION

SUSTAINABLE DEVELOPMENT GOAL #4 (QUALITY EDUCATION)

“What actions can be implemented to effectively address the shortage of up-to-date learning resources including books, classrooms, and televisions at Mapaina Elementary School?”

If the government can prioritize resource-constrained schools in providing enough fund for learning resources then the problem of lack of learning resources of Mapaina Elementary School will be addressed.



SOLUTIONS

COLLABORATIVE EFFORTS AND STRATEGIES

- Fundraising/
Volunteering projects/
Sponsorships
- Establish partnerships
with the local NGOs
that support
education.

IMPROVISATION OR USING LOCALLY AVAILABLE LEARNING MATERIALS

- Teacher training
and seminars -
for teachers to
develop their
knowledge and
skills in
improvising IMs.

INCREASE PUBLIC INVESTMENT AND PROPER OF ALLOCATION OF BUDGET FOR EDUCATION

- Equality vs Equity
principle (prioritize
and give more to
schools that have
less learning
resources.)

OPEN PUBLIC LIBRARY WITHIN THE LOCALITY

- Open public library near
the area which offers
students and teachers
free access to a wide
variety of information,
resources, and materials.
- To effectively utilize
technology (such as
laptops and computers.)



4 QUALITY
EDUCATION



Members:

Frances Leilanie Bayag, Mhea Lei Laza,
Norlhyne Hangdaan, Estephania Panit



GENDER EQUALITY

5 GENDER EQUALITY



HOW CAN WE LESSEN GENDER BIAS IN EDUCATION?



GENDER EQUALITY?

All genders are free to pursue whatever career, lifestyle choice, and abilities they want **without discrimination**. Their rights, opportunities, and access to society are not different based on their gender.



SOLUTIONS

DepEd should revisit and revise learning materials such as modules depicting gender bias.



GOVERNMENT



TEACHERS

Teachers should develop their educational materials to ensure that diverse perspectives and experiences of both genders are included.



STUDENTS

Students must be an instrument to promote equal access to education Organize events or awareness campaigns inside and outside school.

GOALS

ENDING GENDER DISPARITIES

ELIMINATING VIOLENCE AGAINST WOMEN AND GIRLS' LIVES

ELIMINATING EARLY AND FORCED MARRIAGE

SECURING EQUAL PARTICIPATION AND OPPORTUNITIES FOR LEADERSHIP

UNIVERSAL ACCESS TO SEXUAL AND REPRODUCTIVE RIGHTS.

A strong grasp of gender equality is essential for future teachers because it underpins inclusive and equitable education. It not only

CONCLUSION

benefit students by creating a safe and supportive learning environment but also prepares them to be responsible, empathetic, and respectful individuals in a diverse world.



PREPARED BY:

JAMILA LUMIDAO, JAYNE MENDOZA

FELIZZE YANA P. UBBANAN, ZYREEN VILORIA





Sustainable Development Goal 6 focuses on ensuring the availability and sustainable management of clean water and sanitation for all by 2030. However, one of the most pressing challenges hindering the achievement of this goal is the widespread lack of adequate sanitation facilities around the world especially in rural areas.



SDG 6

CLEAN WATER AND SANITATION

Hypothesis:

If proper sanitation facilities (toilets) are established with the support of various organizations and the government, then it is expected to result in improved hygiene, reduced water contamination, and cleaner, more sustainable water resources.

Problem:

How can we help communities without adequate sanitation facilities to achieve better sanitation within the areas of Solano, Nueva Vizcaya?



ASSESSING THE COMMUNITY

Assessing the community allows us to understand the specific sanitation needs and challenges of the community, including the types of sanitation facilities required (e.g., toilets, sewage systems, waste disposal), as well as assessing the extent of sanitation-related health issues.



FUND RAISING

Upgrade or build sanitation facilities, ensuring the community can access safe and effective services. Programs can be done such as "Fun Run Programs", corporate sponsorships, and donations.



COLLABORATION WITH DIFFERENT NGO'S AND LGU'S

Initiative and direct support from the LGU partnerships can provide infrastructure and regulatory support. NGOs can collaborate with other organizations and local stakeholders to leverage resources, knowledge, and expertise for a more comprehensive and sustainable approach to sanitation improvement.





ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

Lack of Access to Affordable and Clean Energy in Remote Areas in Alfonso Castaneda

SDG 7, aims to ensure universal access to affordable, reliable, and sustainable energy sources. It seeks to improve energy efficiency, promote clean and renewable energy, and address energy poverty to support both economic development and environmental sustainability.

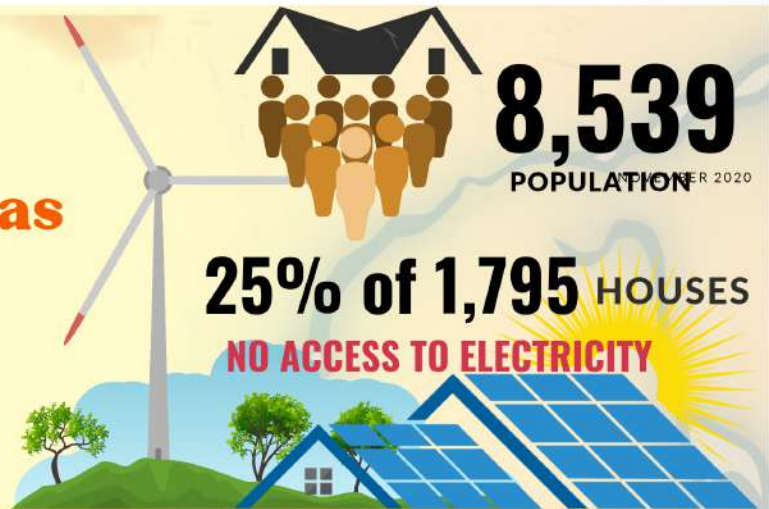


Galitaja Falls, situated in the scenic Alfonso Castaneda region of Nueva Vizcaya, Philippines

By carefully implementing a mini hydroelectric power plant at Galitaja Falls, the region can achieve the dual goals of environmental preservation and socio-economic advancement while providing visitors with an enriching and environmentally conscious experience.

HYPOTHESIS

**THERE IS NO SUFFICIENT SOURCE OF
RENEWABLE ENERGY IN REMOTE AREAS
IN ALFONSO CASTAÑEDA.**



SOLUTION

MINI HYDROELECTRIC POWER PLANT

The installation of the mini-hydroelectric power plant is in Putog Falls, Barangay Gulintuja,



A mini hydroelectric power plant in a barangay can help provide a reliable and clean electricity to the community, improving residents' quality of life by enabling access to modern amenities, education, and healthcare. Additionally, it promotes environmental sustainability as a renewable energy source, reducing greenhouse gas emissions and the reliance on non-renewable energy. Partnership to Local Government Unit will make this project possible.



MA. SUZETH D. PACIS
BSED SCIENCE 3



RICKSON D. PALAYON
BEED 4



BARBIÉN BALUT
BSED ENGLISH 3



**SUSTAINABLE
DEVELOPMENT GOALS**

TARGET

7-2



INCREASE GLOBAL
PERCENTAGE OF
RENEWABLE ENERGY



PROMOTE SUSTAINED, INCLUSIVE, AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT, AND DECENT WORK FOR ALL

DECENT WORK AND ECONOMIC GROWTH: GENDER WAGE GAP

A Filipina worker earns 92 centavos for every 1 peso a Filipino worker earns

GOAL

By 2030, achieve full and productive employment and decent work for all women and men, including young people and persons with disabilities, and equal pay for work of equal value.

WHY IS THERE A GAP?

-  Occupational Segregation
-  Motherhood Penalty
-  Bias and Stereotypes
-  Lack of Representation
-  Historical Factors

“If the problem is highly recognized by the community and the government, then the wage imbalance will be addressed faster and with more definite solutions.”

HOW CAN WE CLOSE THE GENDER WAGE GAP IN THE AGRICULTURAL SECTOR IN ARITAO, NUEVA VIZCAYA?

Education on Gender Wage Gap

Partnership with Institutions/ Organizations

Implementation of Policies

SOLUTIONS



“For the same work, dudes get paid more.” — Rachel Maddow



HOW CAN WE HELP STOP OR LESSEN WASTE GENERATION IN AREAS OF SOLANO, NUEVA VIZCAYA?

TARGET 12-1	TARGET 12-6
TARGET 12-2	TARGET 12-7
TARGET 12-3	TARGET 12-8
TARGET 12-4	TARGET 12-A
TARGET 12-5	TARGET 12-B
TARGET 12-C	

HYPOTHESIS

If the Barangay chairman prioritize the change in the consumption patterns of households in each "Purok", then the problem of solid waste generation in Barangay Concepcion, Solano Nueva Vizcaya will be addressed

SOLUTIONS

ORGANIZATION OF GARBAGE COLLECTION

The garbage collection should be improved. The number of labors, number of garbage trucks, schedule of collection, routing system, tools for collection are few concerns which should be looked into to improve garbage collection.

INTENSIVE RESEARCH

Through intensive research, we are able to collect studies that will serve as proof to seek help from the government to allocate funds for the issue of the excess of food.

CONSUMER EDUCATION AND AWARENESS

It is important that individuals understand their rights and responsibilities as consumers of products and services so that they will be aware and apply their rights and responsibilities to avoid the excess of food anywhere.

TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

13 CLIMATE ACTION



CLIMATE ACTION

EVERY VEHICLE ON THE ROAD RELEASES AN AVERAGE OF ONE POUND OF CO₂ PER MILE DRIVEN. COMPARED WITH DRIVING ALONE, TAKING PUBLIC TRANSPORTATION REDUCES CO₂ EMISSIONS BY 45% (PEI, 2021).



PROBLEM

DOES IMPROVING PUBLIC TRANSPORTATION (E.G., TRAINS AND ELECTRICAL JEEPNEYS) IN BAYOMBONG AFFECT THE AMOUNT OF CO₂ AND NO EMISSIONS THAT CONTRIBUTE TO THE DEPLETION OF THE EARTH'S OZONE LAYER?

SDG 13

THIS GOAL SEEKS TO URGENTLY ADDRESS CLIMATE CHANGE AND ITS EFFECTS BY PROMOTING CLIMATE RESILIENCE, MITIGATION EFFORTS, AND GLOBAL COOPERATION TO LIMIT GLOBAL WARMING.

HYPOTHESIS

IMPROVING PUBLIC TRANSPORTATION CAN LESSEN CO₂ AND NO EMISSIONS; THUS, NOT CONTRIBUTING TO THE DEPLETION OF THE EARTH'S OZONE LAYER.

ARE YOU UP FOR THE CHALLENGE?

REVOLUTIONIZE PUBLIC TRANSPORTATION AND PROMOTE ECO-FRIENDLY TRANSPORTATION VEHICLES (E.G., E-TRIKES, E-JEEPS, AND E-BUSES)

PROMOTE THE UTILIZATION OF BICYCLES AND WALKING

REDUCE CO₂ AND NO EMISSIONS THROUGH LESSENING THE UTILIZATION OF PRIVATELY OR PERSONALLY OWNED VEHICLES

PREPARED BY: ALAYU, TRISHA MAE - BASILIO, VALMIN JOY - MARTIN, JOHN LESTER





SDG #14 Life Below Water



Focuses on the conservation and sustainable use of oceans, seas, and marine resources.



Problem



How can we lessen plastic pollution in Tondaligan Beach of Bonuan?



Hypothesis

Observing proper waste disposal and waste management with the cooperation of individuals, different organizations, and the government can lessen plastic pollution in Tondaligan Beach.



Solutions



Minimize the use of plastics

Practice proper disposal of trash



Educate and Advocate



Support Beach Conservation Organizations

