



Positive Use of  
ICT to  
Facilitate  
Teaching and  
Learning

Lubem R. Cabatu,  
EdD

# GUIDE

## QUESTIONS

1. What are ICT-related resources that we can use to facilitate the teaching and learning process?
2. How can we positively use ICT-related resources?
3. Why is it important to use ICT-related resources positively?



# WARM-UP ACTIVITY

Teacher Donna is a Grade 10 English teacher from Real South High School. In one of her lessons, as reflected in the “Procedures” part of her Daily Lesson Log (DLL), she asked her learners to watch a modern version of the text “Inferno” by Dante Alighieri. She downloaded a full-length, game movie from Youtube to strengthen the teaching of the story.

## IV. Procedures

D. Discussing new concepts and practicing new skills #1

The learners will be watching a game-movie version of Dante Alighieri’s “Inferno” which will last for 1 hour and 29 minutes. The video was downloaded from Youtube.



Dante's Inferno [Game Movie]

E. Discussing new concepts and practicing new skills #2

The learners will be watching the full-length video for two meetings. They are to write a reaction paper on what they have learned after watching the game movie.

**Let's take a closer look at how she made use of the featured ICT resource by answering the following questions.**



**IS IT  
APPROPRIATE  
FOR THE  
LESSON?**



**DID IT  
OBSERVE  
ETHICAL  
STANDARDS?**



**IS IT  
APPROPRIATE  
FOR THE  
LEARNERS?**

# POSITIVE USE OF ICT-RELATED RESOURCES

We have to keep in mind that ICT-related resources are not only a resource for teaching but also a powerful means to strengthen the teaching and learning process.

# GUIDELINES IN CHOOSING ICT-RELATED RESOURCES

## 1. USE ICT-RELATED RESOURCES FOR A PRODUCTIVE PURPOSE

Teachers should not focus on its use just to ease the teaching tasks alone. It has to go beyond the idea of individual benefits for the teachers.



## 2. OBSERVE ETHICAL CONSIDERATIONS IN UTILIZING ICT- RELATED RESOURCES

Ethical use of ICT-related resources entails observing morally sound academic practices like source attribution and respecting intellectual property rights.





### 3. ENSURE THE USE OF LEARNER- APPROPRIATE ICT- RELATED RESOURCES

ICT-related resources should be relevant to the age, cultural background, religion, learning context, learning style, and other characteristics of the learners.

# WAYS ON HOW TO USE ICT-RELATED RESOURCES POSITIVELY

## 1. MULTIMODAL TEACHING

Teachers should combine two or more learning modes to provide a well-rounded educational experience.



<https://www.prodigygame.com/main-en/blog/multimodal-learning#definition>

# EXAMPLE

- 1.** The video shown in class should involve captions, images, narration, music.
- 2.** Instead of leaning on more traditional, lecture-style math lessons, teachers can use math puzzles to help teach the same concept.
- 3.** A teacher might assign the reading and then give a lecture using a multimedia presentation, including videos and images. Then, they may plan an in-class activity to give real-life perspective and let students engage with the content in more concrete ways.

## 2. RESPONSIBLE, ETHICAL, AND APPROPRIATE USE OF ICT-ENABLED LEARNING RESOURCES

<b>III. LEARNING RESOURCES</b>					
<b>Learning Competency</b>	<b>Determine the distinguishing characteristics of vertebrates and invertebrates. S6MT-Ile-f-3</b>				
<b>A. References</b>					
1. Teacher's Guide Pages	N/A	N/A	N/A	N/A	N/A
2. Learner's Materials Pages	pp. 125-126	p. 127	pp. 128-130	pp. 131-132	pp. 133-135
3. Textbook Pages	pp. 45-48	p. 50	pp. 50-53	pp. 54-55	pp. 60-64
4. Additional Materials from Learning Resource (LR) portal	N/A	N/A	N/A	N/A	N/A
<b>B. Other Learning Resources</b>	Downloaded photos of different animals from Forestry Images ( <a href="https://www.forestryimages.org/wildlife.cfm">https://www.forestryimages.org/wildlife.cfm</a> ) Electronic Devices Needed: <b>laptop computer and LCD projector</b>	An online article from National Geographic Channel ( <a href="https://www.nationalgeographic.com/animals/invertebrates/">https://www.nationalgeographic.com/animals/invertebrates/</a> ) Electronic Devices Needed: <b>mobile phones/tablet computers</b>	An online game from Tiny Tap about vertebrates and invertebrates ( <a href="http://www.tinytap.it/activities/g1fca/play/vertebrates-and-invertebrates">http://www.tinytap.it/activities/g1fca/play/vertebrates-and-invertebrates</a> ) Electronic Devices Needed: <b>laptop computer and LCD projector</b>	Digitized video and audio materials on distinguishing vertebrates and invertebrates Electronic Resource: <b>DOST STARBOOKS</b>	Sample brochures or pamphlets containing information and photos on how to distinguish characteristics of vertebrates and invertebrates for learners' outputs Electronic Devices Needed: <b>digital camera/laptop computer</b> Social Media Platform: <b>Facebook or Instagram</b>

### **3. APPROPRIATE USE OF ICT USING A LEARNING MANAGEMENT SYSTEM**

**A learning management system, (LMS) is a software that is designed specifically to create, distribute, and manage the delivery of educational content.**

**Google Classroom**

**Edmodo**

**Schoology**

**Quipper School**

**LP+365**

## 4. ETHICAL USE OF ICT USING A SOCIAL MEDIA PLATFORM

**Facebook is one example of computer-mediated communication (CMC) platform that we usually use to communicate online with learners.**

**FACEBOOK GROUP**

**FACEBOOK CHAT**

# Facebook Group/Chat

It can be a virtual platform wherein teacher and students can interact, post questions, materials, videos and others.

The screenshot shows a web browser window displaying a Facebook group page. The browser's address bar shows the URL: facebook.com/groups/71520419788311. The page title is "Inquiries, Investigation and Immersion" and it is a private group with 14 members. The group cover image depicts a colorful illustration of people engaged in various activities like painting, gardening, and photography. The left sidebar contains "Admin Tools" such as Member Requests (1 request), Automatic Member Approvals, Membership Questions, Pending Posts, Post Topics, Scheduled Posts, Activity Log, Group Rules, Member-Reported Content, and Moderation Alerts. The main content area shows a "What's on your mind, Lubeth?" text box with options for Room, Photo/Video, and Tag People. Below this is a "New Activity" section with a post by Ramos Basil Valdez from September 21, 2020. The right sidebar shows the "About" section, indicating the group is Private and Visible, and is a General Group. The Windows taskbar at the bottom shows the date as 16/03/2021.

# Proper Use of Social Media

## Platforms

- 1. Establish agreement/rules in using the Facebook group/chat.**
- 2. Inform parents regarding the set agreement to assure online safety of their child is not at-risk and that Facebook, as a social media platform, is ethically utilized.**



# OTHER ICT-RELATED

## ICT-RELATED RESOURCE/MATERIAL

## HOW TO POSITIVELY USE IT

Microsoft Excel Program

To better teach concepts in Mathematics, say for instance, in plotting of points on a graph, the teacher could create a computer-based Cartesian coordinate plane using Microsoft Excel Program. The program could also be used to teach different formulae and functions in Statistics, since MS Excel provides all of these on hand to its users.

ext-Tula

To level up literary writing among learners of Filipino, the teacher may ask them to create short poems such as a text-tula or flash fiction stories through their mobile phones. To share their "masterpieces," they may be encouraged to send their outputs to their friends or classmates via short message service (SMS).

Movie-Maker Applications

For real-life depictions of virtues and values, the teacher may teach learners how to use movie-maker applications or programs such as VivaVideo for mobile phones and movie-maker programs that can be downloaded and installed in laptop computers. The teacher may ask learners to upload their outputs on social media platforms like Facebook and Youtube for knowledge sharing.



# OTHER ICT-RELATED

ICT-RELATED RESOURCE/MATERIAL

HOW TO POSITIVELY USE IT

In Araling Panlipunan, a culminating activity may include having Grade 7 learners create a Facebook page that promotes products produced in the Philippines. They may also use Facebook as an avenue to sell products that are locally made and are representative of Filipinos' rich culture and heritage.

Android Applications, Youtube, and Government Websites

For elementary learners, using Android applications such as Jungle Music may help them appreciate music through games. For Arts, the use of Paint program installed in many laptop computers may train learners how to create virtual pictures or paintings. To stimulate learners' kinesthetic learning in Physical Education (PE), readily downloadable Zumba videos from Youtube may be used. Lastly, for Health-related lessons, learners may explore authentic data from different government sites such as the Department of Health (DOH) and Bureau of Food and Drugs (BFAD) to document cases of dengue in Central Luzon, for example, and to take note of food products that are banned from public consumption.



# OTHER ICT-RELATED RESOURCE/MATERIAL

## ICT-RELATED RESOURCE/MATERIAL

Online Research Repositories, Text Analysis Tools

## HOW TO POSITIVELY USE IT

Research teachers may use online resources to help learners frame different parts of the research paper. For example, to teach learners how to write their research introductions, they may be asked to download and examine available research journal articles in different educational sites such as Academia.edu, Research Gate, Google Scholar, and ERIC (Educational Research Information Center).

Learners may also use other online programs or softwares to help them tighten language use as they write their researches. These include Coh-Metrix and Style Writer, and Grammarly.com. To avoid plagiarism, Turnitin may be introduced to the learners.



# OTHER ICT-RELATED

## ONLINE APPLICATIONS

## FEATURES

Educreations

It is a visual-learning application that allows teachers to create and show short instructional videos and share the videos with students quickly and painlessly.

Virtual Nerd Mobile Math

It contains interactive tutorials to show Mathematics concepts and show learners lessons in middle school and even high school.

Seesaw: The Learning Journal

It allows learners at any age to create, collaborate, reflect, and share. Families could also be invited through this app to help them monitor their children's learning.

Kahoot! - Play Learning Games

It includes fun learning games and quizzes for teachers.

ZipGrade

It turns phones or tablets into an optical grading machine similar to a Scantron. It has the ability to read free-to-download answer sheets in multiple sizes.



# OTHER ICT-RELATED

LEARNING MANAGEMENT SYSTEM (LMS)	FEATURES
Google Classroom	It allows teachers to create and collect assignments, monitor what students have finished, and give real-time feedback online.
Schoology	It is not only a note-taking platform. It also contains resource folders, tracking systems, and communication programs for teachers, learners, and parents, respectively.
Moodle	It is a free, open-source learning platform. Documentation, trackers and resources are all provided by Moodle.
Edmodo	The Edmodo network helps teachers to share content, distribute quizzes, and assignments to learners, other teachers, and parents.
Blackboard	It provides open and flexible teaching and learning either online or offline.



# OTHER ICT-RELATED

OFFLINE RESOURCES/MATERIALS	FEATURES
Canary Learning	The offline resource can be used when grading and checking assignments.
Pocket	It is not only a note-taking platform. It also contains resource folders, tracking systems, and communication programs for teachers, learners, and parents, respectively.
Evernote	It helps teachers create lists, to-do items, record voice notes, save images and documents. It can also be used to make annotations, group sharing, and chats.
Edmodo	The Edmodo network helps teachers to share content, distribute quizzes, and assignments to learners, other teachers, and parents.
iBooks	This offline resource is good for downloading PDFs for offline reading.
KA-Lite	It is an offline version of Khan Academy offering high-quality education by allowing easy rich to online learning.



# WRAP-UP ACTIVITY

Did teacher Donna  
apply the positive use  
of ICT-related  
resources?



**The use of ICT-related resources should not hinder us from exerting more effort to improve instruction, but rather help learners produce desirable learning outcomes.**

**Furthermore, it must always be used with caution and intelligence so that it will serve its purpose in education.**



# REFERENCE

## S



<https://www.prodigygame.com/main-en/blog/multimodal-learning#definition>

RPMS Manual Module 13

<https://www.valamis.com/hub/what-is-an-lms>

