



**COLEGIO DE STA. ANA DE VICTORIAS, INC.**



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## TECHNOLOGY FOR TEACHING AND LEARNING 1 (EDUC 214)

### MID TERM

#### MODULE 3: NON-DIGITAL AND DIGITAL SKILLS AND TOOLS IN DELIVERING TECHNOLOGY-ENHANCED LESSONS

#### LESSON 2 : SELECT AND USE ICT TOOLS FOR TEACHING AND LEARNING

##### INTRODUCTION

The current systems employ technologies by integrating ICT tools and applications in education and in instruction. The great part of learning is working on information and using it to create something that can be useful and edifying for humanity.

Since the intention of education is to make learners become useful and productive citizens, the use of ICT tools can provide a lot of possibilities on how learners can do something with what they know.

Teachers can therefore employ ICT tools in their ways of engaging learners by communicating, disseminating and managing information. The effective use of ICT tools depends on how the teacher will use them. When employed appropriately, they can make the lesson meaningful and learners' engagement in the process of learning.

In instruction ICT tools can be used in the presentation of the lesson, demonstrating a point or presenting a concept

##### LEARNING OUTCOMES

#### Intended Learning Outcomes

1. Selected and used an appropriate tool in teaching
2. Provided alternative ways in incorporating the digital tool in the lesson

##### LEARNING INPUTS

**"Technology will never replace great teachers, but technology in the hands of great teachers is transformational"**

- George Couros

- The current systems employ technologies by integrating ICT tools and applications in education and in instruction.
- ICT stands for Information and Communications Technology. This refers to various tools and devices or gadgets used in communicating, disseminating, and creating, storing and managing information.
- it is important that learners understand how to use these tools in helping them learn.
- Since the intention of education is to make learners become useful and productive citizens, the use of ICT tools can provide a lot of possibilities on how learners can do something with what they know.
- Teachers can therefore employ ICT tools in their ways of engaging learners by communicating, disseminating and managing information.

### **A. Using Mobile Phone and the QR Code**

- A QR code (quick response code) is a type of 2D bar code that is used to provide easy access to information through a smartphone. Example of a QR code in this process, known as mobile tagging, the smartphone's owner points the phone at a QR code and opens a barcode reader app which works in conjunction with the phone's camera.



- It is a code that was created by a Japanese corporation Denso-Wave in 1994.
- Effectively and efficiently connecting the physical world with electronic world, QR stands for "Quick Response".
- It allows the readers to decode the information at a high rate of speed.

You can easily read QR codes through a QR code scanner. Here's all you need to do:

1. Have a mobile phone with a camera;
2. Using the mobile phone, download from Play store or App Store the QR Code Reader/Scanner application. Choose an appropriate QR code reader for your operating system whether IOS or Android. Once installed in your gadget, you can use it to read the codes
3. Focus your camera on the QR code. Click it and the message will be revealed to you.

### **HOW TO MAKE A QR Code**

Step 1: Be online

Step 2: Search for a QR Code generator and ensure that you read the information about the application. This is important to ensure your safety in the internet. There are tons of QR code generators but a few of the most popular include KAYWA, GOQR.me, Visualead, and QR Stuff. There are many FREE applications online and therefore you can take this chance to use them.

Step 3: once you have identified your free online QR Code Generator, you can now encode the text or the information that you want.

Step 4: run it and save it as a jpeg file. Now, you have successfully created your own code which you can download.

Step 5: test the QR code using QR Code reader or scanner.

Ten Interesting Ways to Integrate QR Codes in your Teaching	
<b>1. Create Interactive and Engaging Content</b>  You can enrich the content you teach in a class by using QR Codes that link to other readings and resources. You can link to a pdf, a video presentation, a website, a document, or an audio file among others	<b>6. Scavenger Hunt</b>  Create an interactive classroom activity such as the Scavenger Hunt by using QR codes that provide direction or instructions resulting in better learner engagement
<b>2. Share Resources</b>  Learners can use QR codes to share educational resources with each other (e.g. lecture notes, web content, how-to-do videos)	<b>7. Enhance Classroom Library</b>  Create QR codes of students' brief write-ups about why they enjoy their book and put them right in or on the books in the class library. Students can use these QR codes to find out more about the books
<b>3. Use in classroom activities</b>  The QR code can be used in giving instructions in class and pin them up inside the classroom instead of providing them with thick copies of printed materials giving instruction on how to do an activity	<b>8. Gather students feedback</b>  You can create surveys, polls, and forms using google form and share them with students as QR codes which can be easily scanned and accessed.
<b>4. Provide help with homework</b>  A detailed instruction can be made into a QR code which students scan at home and use the information to help them comply with their assignments	<b>9. Research Project</b>  Make students create QR codes linking other resources and web content to their research work
<b>5. Communicate with Parents or Partners</b>  You can share information to parents on school events or activities in school. You can also put it in a webpage for parents to get information or include it in newsletters, permission slips, etc. you can have them printed as magnets and parents can get the information. However, be sure to orient the parents on how to use QR Codes.	<b>10. Provide Easy Access to Online Content</b>  Create QR codes with URLs for students to gain easy access to online resources. Sometimes when a long URL is given, learners may copy a broken URL version hence, resources become inaccessible.

## B. Using Laptop and the Infographics

- An infographic is a visual representation or an image such as a diagram, chart or picture representing information or data. It is eye-catching and makes use of a clear layout, attractive colors and hues, and caricatures that provide a cohesive presentation of the information.
- If it is used to make market products in the increasing visual world, then infographics can also be employed in marketing information and ideas in the teaching and learning process.
- **Canva** (<http://www.canva.com>) is a tool that can be used in creating info graphics. It has several infographics template for education. You can try out the free design elements and produce one just like a professional infographic designer. You can start exploring this site and familiarize yourself with its features.

- As a gentle reminder, please take time to read the instructions and navigate around that features to get optimal use of it.

There are many ways for which info graphics can be used:

**1) To present survey data**

- Presenting statistical data is highly useful.
- Data are much easier to decode and understood if they are presented by info graphics

**2) To simplify a complex concept**

- Simplifying data is the core purpose of infographics.
- It is very effective in summarizing key points or providing an overview of the lesson.

**3) To explain how something functions**

- By using infographics, you can show the intricacy of how something complex works. It can reveal the mechanics behind how an object works.
- Designers can create infographics by showing the mechanics behind intricate objects, processes, concepts.

**4) To compare**

- Presenting information by highlighting similarities and differences through a visual parallel in an infographics can turn out more effective than sometimes expressing it in words.
- It is easier to draw comparisons with the same information neatly organized.

**Activity:**

Assess the given infographics of a superhero – Batman – from the time it was conceived in 1939 to 2013.

Would you say that it is effective? Why or why not?

What are the key elements that the designer clearly employed to show a visual starting point?

**5) To present interesting facts**

- When information or facts are presented all in words, the use of infographics can bring life. If done well, the infographics can transform information into visual image that can attract and engage readers.
- If there is a written text, the information may not stand out compared to when it is presented in this format.
- Information written in snippets become understandable and more appealing to the eye.

**HOW TO MAKE YOUR INFOGRAPHICS:**

You need the following:

1. You need to be online
2. Using the PC, laptop or mobile phone, search for **Canva, Vismen or Venngage**
3. Create or sign up an account if you still do not have one in order to design your own infographics
4. Procedure:

Step 1: Choose the most suitable template for your use from the library

Step 2: You may use images from their file or upload your own pictures

Step 3: Make a cohesive layout containing correct and essential information

Step 4: You can choose a background and font styles

Step 5: You may change the color of boxes and the text to suit your style

Step 6: Save the image of the infographics

Step 7: Share the infographic you have created

### C. Ipad/Tablet and the Online Bulletin Board

Creativity and collaboration are fun! A dull and boring bulletin board can be made interesting when done online. Posts when done with themed backgrounds, stylish fonts and varied colors become attractive to the learners. An online bulletin board is a way of presenting ideas with a twist and interest with no cost at all. Here's how:

**Step 1:** Search for <https://padlet.com/>

**Step 2:** Sign up or log-in using any of your social media account.

**Step 3:** If you want to make your own, click **MAKE A PADLET**.

- a. You can choose **Start with a Blank** or **Pick a Template**
- b. Start making posts by clicking the + sign
- c. Make your posts as creative as you can by clicking **Modify** and selecting your choice of color, font, theme, etc.
- d. You can now share your Padlet or online bulletin board to your friends. Click **Share** and allow others to have access to it or you can share through the social media account where others can view it.

**Step 4:** If you want to join someone's bulletin board, click **JOIN A PADLET**.

- a. Enter in the dialog box the URL of the padlet you want to join.
- b. Start posting on your friend's/ classmate's padlet by clicking the + sign.

### ACTIVITY: (for Oral Presentation)

Using your gadget, connect to the web and explore on the following educational application tools.

1. Quiz Maker – <https://testmoz.com/>
2. Poll Maker – <http://www.profrpfs.com>
3. Storytelling Online – <http://www.storylineonline.net/>
4. Rubrics Library – <http://school.discoveryeducation.com/schrockguide/assess.html>
5. Online Journal – <http://penzu.com/>
6. Mind Map Tool – <https://www.edrawsoft.com/freemind.php>
7. Interactive Poster – <http://www.glogster.com/>
8. Graphic Organizers – <http://www.educationoasis.com/printables/graphic-organizers/>

1<sup>st</sup> Semester AY 2021-2022

9. Making a Podcast – <https://www.buzzsprout.com/how-to-make-a-podcast>

10. Cartoon – <http://www.toondoo.com>