Objective 11

Monitored and evaluated learner progress and achievement using learner attainment data.

MOVs

1. Compilation of learner's written work with summary of results and with signature of parents
2. Formative/summative assessment tools with TOS and frequency of errors with identified least mastered skills
3. Class records/grading sheets
4. Lesson plans/modified DLLs showing index of mastery
5. Others (Please specify and provide annotations)


DAILY LESSON PLANS
with
INDEX OF MASTERY

Republic of the Philippines
Department of Education
Region IV-A (CALABARZON)
CITY SCHOOLS DIVISION OF BACOOR
SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

Daily Lesson Log in Computer Systems Servicing NC II

Date:	June 25, 2019	**Grade Level:**	12
Section/ Time:	ICT 12B/ 8:00 – 10:00	**Quarter:**	1st

OBJECTIVES	At the end of the lesson, 80% of the students should be able to: (1) determines the concepts of application software; (2) compare and contrast the types of application software; and (3) demonstrate the installation procedures of application software.
Content Standard	The learners demonstrate an understanding of concepts and principles in installing and configuring computer systems.
Performance Standard	The learners shall be able to install and configure computer systems based on established procedures and system requirements.
Learning Competencies	***LO4: Install Application Software*** 4.1 Install Application Software based on software installation guides, end-user requirements and software license agreement 4.2 Carry out variation to application software in accordance to customer/ client requirements 4.3 Access software updates in accordance with manufacturer's recommendations and requirements 4.4 Install software updates in accordance with manufacturer's recommendations and requirements
CONTENT	Install Application Software
REFERENCES/ MATERIALS	Curriculum Guide, online resources or readings found on the internet, Power Point presentation, LED TV, Hand-outs
Priming/ Review	✓ Prayer ✓ Greetings ✓ Checking of Attendance ✓ State the objectives of the lesson ✓ **Motivation: Logo Quiz** Directions: Show different logos. Identify the name of the logos shown. Ask the students what they have observed in all the logos that has shown.

	Microsoft PowerPoint
	Mozilla Firefox
	VLC Media Player
	Google Earth

Prepared by:
JERICO D. CASTILLO
Teacher III

Checked:
GERALDINE M. TABING, Ed D
Master Teacher II

Noted:
ADORANDO R. DARVIN
Principal II

	 Adobe Photoshop ✓ Pre-test Directions: Modified TRUE or FALSE: Indicate whether the statement is True or False. If false, change the identified or underlined word or phrase to make the statement true. It describes any channel of communication includes anything from printed paper to digital data. 1. **System Software** is a term which is used for software created for a specific purpose. 2. **Custom software** can be purchased from software publishers. 3. **Freeware** is freely distributed for a trial period. 4. **Public-Domain Software** is un-copyrighted and may be used or altered without restriction generally developed under government grants. 5. **Commercial Software** is copyrighted and generally costly. Key to Correction: 1. Application Software 2. Commercial/ Packaged Software 3. Shareware 4. True 5. True
Activity	**THINK-PAIR-SHARE** 1. THINK on the task/s in school, in home or in business. • List down the tool you used before without the help of application software. • List down the application software/s that will help you in performing the task. 2. Look for a PAIR and exchange ideas. 3. SHARE in front the shared analysis about the activity.
Analysis	**Guide Questions:** 1. Did the activity help you realized the importance of application software? Explain. 2. How will you apply it in your daily activities?
Abstraction	**Application Software** • apply to real-world tasks • solves user problems • term which is used for software created for a specific purpose • generally a program or collection of programs used by end users **Application Software Types** *Packaged/ Commercial* • sold in stores or downloadable from the WWW • purchased from software publishers • must be installed ○ standard or custom installation ○ Setup process copies some of all of the software to the hard disk *Custom* • written by programmers • takes a lot of time to write and test **Acquisition of Application Software** *Freeware* • free to all • copyrighted • distributed in machine-readable format *Shareware* • freely distributed for a trial period • pay a nominal fee to register with the author *Public-Domain* • un-copyrighted

Prepared by:
JERICO D. CASTILLO
Teacher III

Checked:
GERALDINE M. TABING, Ed D
Master Teacher II

Noted:
ADORANDO R. DARVIN
Principal II

- may be used or altered without restriction
- generally developed under government grants

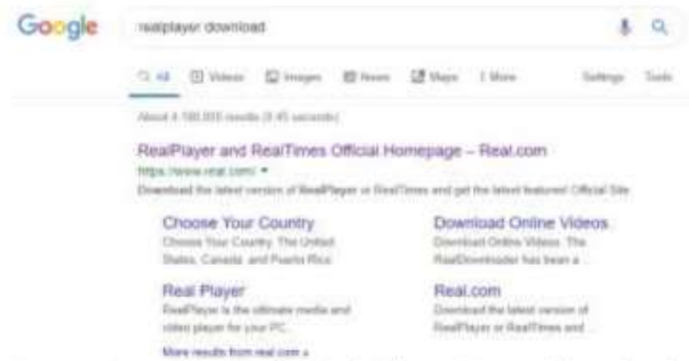
Open-Source

- free to all
- source code is distributed
- may be used or altered
- popular under the LINUX OS

Commercial

- used most often
- copyrighted
- generally costly
- may not be copied without permission of manufacturer

RealPlayer Installation Procedures



Go to any Internet browsers like Google Chrome. Type realplayer download in the search bar. Click the first link. It will redirect you to the website.

Click the Download RealPlayer for Free button. Select Zip package. It will automatically download and save it to your local drive.

Double-click the RealTimes-RealPlayer.exe file.

Click Run. It will prompt a message "Do you want to install the program". Click Yes.

Prepared by:
JERICO D. CASTILLO
Teacher III

Checked:
GERALDINE M. TABING, Ed D
Master Teacher II

Noted:
ADORANDO R. DARVIN
Principal II

Republic of the Philippines
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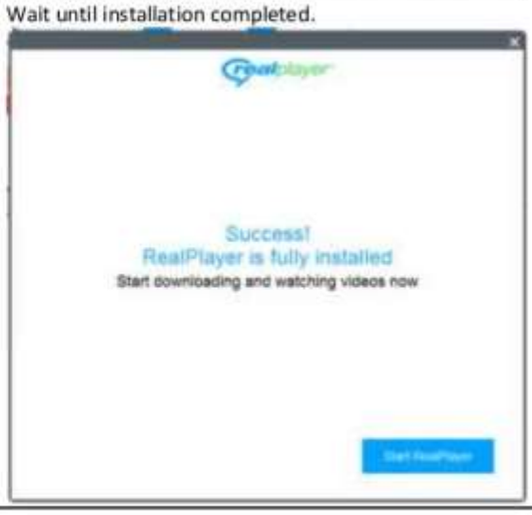
Click Next.

Click Agree.

Wait until installation completed.



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JERICO D. CASTILLO
Teacher III

Checked:

GERALDINE M. TABING, Ed D
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ADORANDO R. DARVIN
Principal II

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	Click Start RealPlayer.
Application	**Demonstration:** The teacher will call 2 – 3 students to re-demonstrate the procedures in installing RealTime Player. **Instructions:** 1. Go to any Internet browsers like Google Chrome. Type realplayer download in the search bar. Click the first link. It will redirect you to the website. 2. Click the Download RealPlayer for Free button. Select Zip package. It will automatically download and save it to your local drive. 3. Double-click the RealTimes-RealPlayer.exe file. 4. Click Run. It will prompt a message "Do you want to install the program". Click Yes. 5. Click Next. 6. Click Agree. 7. Wait until installation completed. 8. Click Start RealPlayer. **Criteria for Grading:**

Criteria	1	2	3	4
Adequate Time	Student spent too much time/ and or too little time on entire task.	Student spent too much time and/ or too little time on parts of the task.	Student spent an adequate amount of time on task to ensure good results.	Student spent an adequate amount of time on task to ensure the best results.
Completion of Task	Student completed less than ½ of the task by the given time.	Student completed about ½ of the task by the given time.	Student completed about 80% of the task by the given time.	Student completed all of the task by the given time.
Effort	Student put little to no effort towards the task.	Student put little effort towards the task.	Student put a good amount of effort towards the task.	Student put a great deal of effort towards the task.

EXIT Ticketing

The students will accomplish an exit ticket given the format below:
After the conduct of today's lesson:

I learned that _____
I want to learn more about _____
I will apply what I have learned through _____

This activity will be taken for 5 minutes.

The teacher will ask students the application/ importance or its relationship to other discipline. Relate or give importance of having knowledge about the topic presented, give examples of other disciplines were the topic presented is applicable.

EVALUATION	Post-Test Directions: Modified TRUE or FALSE: Indicate whether the statement is True or False. If false, change the identified or underlined word or phrase to make the statement true. It describes any channel of communication includes anything from printed paper to digital data. 1. **Commercial Software** is copyrighted and generally costly. 2. **System Software** is a term which is used for software created for a specific purpose. 3. **Freeware** is freely distributed for a trial period. 4. **Custom software** can be purchased from software publishers. 5. **Public-Domain Software** is un-copyrighted and may be used or altered without restriction generally developed under government grants. Key to Correction: 1. True 2. Application Software 3. Shareware 4. Commercial/ Packaged Software 5. True
HOMEWORK	Research and jot down notes the Microsoft Office Installation.
Remarks	

Prepared by:
JERICO D. CASTILLO
Teacher III

Checked:
GERALDINE M. TABING, Ed D
Master Teacher II

Noted:
ADORANDO R. DARVIN
Principal II

Index of Mastery

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...oor City, Cavite
... 236 3371 / Cell No. 0917-1264983

INDEX OF MASTERY	INDEX OF MASTERY To get the Index of Mastery =(Total Item*Frequency/(Total Frequency*Highest Possible Raw Score))*100		95.79%
	SECTION	**ITEMS**	**FREQUENCY**	**ITEM * FREQUENCY**
	ICT 12B	5	30	150
		4	8	32
		3	0	0
		2	0	0
		1	0	0
		Total	38	182

Number of Learners Within Mastery Level	30 out of 38 students reached the mastery level
Number of Learners Needing Reinforcement	0 out of 38 students needed reinforcement
Number of Learners Needing Remediation	0 out of 40 students needed remediation
Reflection	Giving students more time to explore and discover the task given allows them to fully grasp the lesson.

Prepared by:

JERICO D. CASTILLO
Teacher III

Checked:

GERALDINE M. TABING, Ed D
Master Teacher II

Noted:

ADORANDO R. DARVIN
Principal II

Republic of the Philippines
Department of Education
Region IV-A (CALABARZON)
CITY SCHOOLS DIVISION OF BACOOR
SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

Daily Lesson Log in Media and Information Literacy

Date:	November 17, 2019	**Grade Level:**	11
Section/ Time:	HUMSS 11D / 7:00 – 8:00	**Quarter:**	3rd

I. OBJECTIVES	At the end of the lesson, 80% of the students should be able to: (1) determine the concepts of text media; (2) discuss the basic principles of typography; and (3) follow the basic principles of typography.
A. Content Standard	The learner demonstrates understanding of different resources of media and information, their design principle and elements, and selection criteria.
B. Performance Standard	The learner produces a living museum or electronic portfolio or any creative forms of multimedia showcasing their/ his/ her understanding, insights, and perceptions of the different resources of media and information.
C. Learning Competencies	▪ describes the different dimensions of text information and media ***MIL11/12TIM-IVb-3*** ▪ comprehends how text information and media is/ are formally and informally produced, organized, and disseminated ***MIL11/12TIM-IVb-4*** ▪ evaluates the reliability and validity of text information and media and its/ their sources using selection criteria ***MIL11/12TIM-IVb-5*** ▪ produces and evaluates a creative text-based presentation using design principle elements ***MIL11/12TIM-IVb-6***
II. CONTENT	Text Media and Information (Typography)
III. REFERENCES / MATERIALS	Curriculum Guide, online resources or readings found on the internet, Power Point presentation, LCD TV, Laptop • 5 basic principles you must consider to master the art of typography http://tangledindesign.com/5-basic-principles-you-must-consider-to-master-the-art-of-typography/
IV. LEARNING TASKS	
Priming / Review	➢ Prayer ➢ Greetings ➢ Checking of Attendance ➢ State the objectives of the lesson ➢ Motivation: **4 Pics 2 Words Game** Directions: 1. *Review the pictures*. You will be shown a screen with four photographs. These four photographs each have something in common. 2. *Guess the theme*. Below the pictures, you will see blank spaces indicating how many letters are in the answer. Below that, there will be a scrambled keyboard of possible letters you can select from when typing in your guess for the answer. Note: You will be provided with more letters than necessary. This is not simply a scrambler-type game. 

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San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

	➢ Pre-test Directions: Read each statement or question carefully. Write the correct answer on your notebook. 1. It is any human-readable sequence of characters that can form intelligible words. 2. It is the appearance that can be changed using font parameters. 3. It is usually used for the body text of books, newspapers, magazines and research publication. 4. It is unformatted text document by an editor as notepad on Windows platform. 5. It is the space between your text and any other elements on the page. Key to Correction: 1. Text 2. Formatted Text 3. Serif 4. Text or .txt 5. Proximity
Activity	**Think-Pair-Share** 1. *THINK* on the design principles used in text media. 2. Look for a *PAIR* and exchange analysis about the text media. 3. *SHARE* in front the shared analysis about the text media.  Image 1  Image 2
Analysis	**GUIDE QUESTIONS:** 1. What are your observations about the principles of design used in the presented text media? 2. Did the text media creator/ developer consider the principles of design in the creation process of the text media? If yes, why? If no, why? 3. Are the principles of design effectively used in the text media material? Describe briefly. 4. If given a chance, change or modify the look the text media presented.
Abstraction	***Definition of Term/s*** • *Text* - any "human-readable sequence of characters" that can form intelligible words; simple and flexible format of presenting information or conveying ideas whether hand-written, printed or display on-screen ***Types of Text*** • *Hypertext* - serve to link different electronic documents and enable users to jump from one to other • *Plain or unformatted text* - fixed sized characters having essentially the same type of appearance • *Formatted text* - appearance can be changed using font parameters (bold, italic, font size, font color) ***Different Typefaces*** • *Serif* - connotes formality and readability in large amount of texts; usually used for the body text of books, newspapers, magazines and research publication; Example: Times New Roman, Garamond, Baskerville • *Sans Serif* - brings a clean or minimalist look to the text; used for clear and direct meaning of text such as road signage , building directory or nutrition facts in food packages; Example: Arial, Helvetica • *Script* - draws much attention to itself because of its brush-like strokes; usually used in wedding invitation cards or other formal events; Example: Edwardian, Vladimir • *Decorative* - caters to a wide variety of emotions (such as celebration, fear, horror) or themes (such as cowboys, circus holidays, summer, kiddie); Example: Chiller, Jokerman, Curls MT

File Formats

- *Txt (Text)* - unformatted text document by an editor as notepad on Windows platform; File Extension: .txt
- *Doc (Document)* - a native format for storing documents created by MS Word package; File Extension: .doc
- *Pdf (Portable Document Format)* - developed by Adobe systems for cross platform exchange of documents, supports image and graphics; File Extension: .pdf

Five Basic Principles of Design

EMPHASIS

- importance or value given to a part of the text-based content
- make the text **bold** *italicized* have a **heavier weight** darkened or lightened enlarged

PROXIMITY

- how near or how far the text elements from each other
- when two things are closely related, bring them close together

ALIGNMENT

- how the text is positioned in the page
- left, center, right, or justified

REPETITION

- consistency of elements; unity of the entire design; repeating some typefaces within the page

CONTRAST

- creates visual interest; two elements are different from each other

Application

THANK YOU OR SORRY CARD

1. Create a two-folded THANK or SORRY card using only text and following the principles of design. (10 minutes)
2. Present it to class. (maximum of 1 minute per presenter)

Rubric:

Criteria	5	4	3	2	Score
Principles	All principles are identified, correctly described on text media	Most principles are identified, and generally are correctly described on text media	Some principles are identified, or incorrectly described on most of the objects	There are several missing principles or misidentified or incorrectly described or text media is missing	
Organization	The document is well organized, the descriptions of the principles are easy to find	The document is adequately organized, the descriptions of the principles can be found	The document is somewhat organized, the descriptions of the principles are confusing	The document is poorly organized, the descriptions of the principles are difficult to find or unclear	

EXIT Ticketing

The students will accomplish an exit ticket given the format below:
After the conduct of today's lesson:

I learned that _____
I want to learn more about _____
I will apply what I have learned through _____

This activity will be taken for 5 minutes.

The teacher will ask students the application/ importance or its relationship to other discipline. Relate or give importance of having knowledge about the topic presented, give examples of other disciplines were the topic presented is applicable.

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SHS in SAN NICHOLAS III, BACOOR CITY
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Tel No. (046) 236 3371 / Cell No. 0917-1264983

IV. EVALUATION

Post-test

Directions: Read each statement or question carefully. Write the correct answer on your notebook.

1. It is usually used for the body text of books, newspapers, magazines and research publication.
2. It is unformatted text document by an editor as notepad on Windows platform.
3. It is the appearance that can be changed using font parameters.
4. It is any human-readable sequence of characters that can form intelligible words.
5. It is the space between your text and any other elements on the page.

Key to Correction:

1. Serif
2. Text or .txt

Index of Mastery

isual media.

INDEX OF MASTERY

INDEX OF MASTERY To get the Index of Mastery =(Total Item*Frequency/(Total Frequency*Highest Possible Raw Score))*100			95.61%
SECTION	**ITEMS**	**FREQUENCY**	**ITEM * FREQUENCY**
HUMSS11D	5	32	160
	4	9	36
	3	0	0
	2	0	0
	1	0	0
	Total	41	196

Number of Learners within Mastery Level	32 out of 41 students reached the mastery level
Number of Learners Needing Reinforcement	0 out of 41 students needed reinforcement
Number of Learners Needing Remediation	0 out of 41 students needed remediation
Reflection	Student outputs are impressive as they were able to connect to the lesson and create new ideas in relevance to the topic discussed. Harnessing the creative abilities of my learners is proven to be very effective. Those learners who thought that they couldn't create artistic masterpieces were proven wrong; I believe I have brought out the artists within my students.

Prepared by:	Checked:	Noted:
JERICO D. CASTILLO Teacher III	**GERALDIN M. TABING, EdD** Master Teacher II	**ADORANDO R. DARVIN** Principal II

Republic of the Philippines
Department of Education
Region IV-A (CALABARZON)
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SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

Daily Lesson Log in Media and Information Literacy

Date:	February 12, 2020	**Grade Level:**	11
Section/ Time:	HUMSS 11D / 9:00 – 10:00	**Quarter:**	4th

OBJECTIVES	At the end of the lesson, 80% of the students should be able to: (1) determine the basic concepts of visual information and media; (2) discuss the different visual design principles; and (3) apply visual design principles in taking a photo.
Content Standard	The learner demonstrates understanding of different resources of media and information, their design principle and elements, and selection criteria.
Performance Standard	The learner produces a living museum or electronic portfolio or any creative forms of multimedia showcasing their/ his/ her understanding, insights, and perceptions of the different resources of media and information.
Learning Competencies	▪ describes the different dimensions of visual information and media ▪ comprehends how visual information and media is/are formally and informally produced, organized, and disseminated ▪ evaluates the reliability and validity of visual information and media and its/their sources using selection criteria ▪ produces and evaluates a creative visual-based presentation using design principle and elements
CONTENT	**Visual Information and Media**
REFERENCES/ MATERIALS	Curriculum Guide, online resources or readings found on the internet, Power Point presentation, LED TV, Hand-outs
Priming/ Review	✓ Prayer ✓ Greetings ✓ Checking of Attendance ✓ State the objectives of the lesson ✓ **Motivation:** The teacher will show a picture and ask the students what are their observations.  ✓ Pre-test Directions: Read each statement or question carefully. Write the correct answer on your notebook. 1. It is the sources of data or information in the form of visual representation. 2. It is the popular image file format used by digital cameras to store photos. 3. It has the ability to read CMYK and YCBCR color and has the ability to store such high pixel intensity. 4. Elements on either side of the axis are arranged similarly. 5. A sense of the distance between elements. Key to Correction: 1. Visual Media 2. JPEG or JPG 3. TIFF 4. Symmetry 5. Proximity
Activity	**Graphic Novel** **Instructions:** 1. Write the story of the graphic novel in your notebook. 2. You are not allowed to talk your classmates. (5 minutes) Scene # 1 Scene # 2 

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Tel No. (046) 236 3371 / Cell No. 0917-1264983

	Scene # 3  Scene # 4  Scene # 5  Scene # 6  Scene # 7  Scene # 8 
Analysis	**Guide Questions:** 1. What is the story in this graphic novel? 2. Who is the main character in the story? How did you know? 3. What do you know about the main character? How did you know it? 4. Is it important to have a visual presentation in understanding a story? Why or Why not?
Abstraction	***Definition of Term/s*** *Visual Media* - sources of data or information in the form of visual representation; may be abstractions, analogues, rough illustrations or digital reproduction of objects ***Purpose of Visual Media*** • gain attention • create meaning • facilitate retention ***Common Visual Media File Types*** • *JPEG* - Joint Photographic Experts Group; popular image file format used by digital cameras to store photos; JPEG is great for images when you need to keep the size small, such as when you need to upload it online • *GIF* - Graphics Interchange Format; image file format used for images on the web for its flexible web support and portability; Not all GIFs are animated, but the popular usage of GIF connotes the animated kind. • *TIFF* - Tagged-Image File Format; best and only choice for professionals when images are intended for print. Its ability to read CMYK and YCBCR color and has the ability to store such high pixel intensity • *PNG* - Portable Network Graphics; If you want to keep the size small, but still retain the image quality, use PNG. If you want to use transparencies, the PNG is the format for you. ***Principles of Visual Design*** • *Unity and Harmony* o Proximity – a sense of the distance between elements o Similarity – ability to seem repeatable with other elements o Continuation – the sense of having a line or pattern extend o Repetition – elements being copied or mimicked numerous times o Rhythm – achieved when recurring position, size, color, and use of a graphic element has a focal point interruption

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- *Balance*
  - Symmetry – elements on either side of the axis are arranged similarly
  - Asymmetry – elements on each side differ in shape but still are in visual equilibrium
  - Radial – elements are arranged around a circular form
- *Hierarchy*
  - Trees – elements arranged in the order of a tree with a trunk, branches & sub branches
  - Nests – elements mapped on to each other as parents, children & grand children
  - Weight – elements of the same weight belong to the same class of hierarchical positions
- *Scale / Proportion*
  - Size – elements of different sizes in relationships with each other
  - Ration – elements related to each other in a ration appear together in visual harmony
  - Divisions – these create focal points that automatically give a sense of the relationships
- *Dominance/ Emphasis*
  - Highlight – breaking the visual hierarchy using form to lay emphasis
  - Colour – to distinguish between elements in a series of similar forms
  - Size – elements of different sizes focus the viewers' attention accordingly
- *Similarity & Contrast*
  - Light & Dark – clear foreground & background separation lend contrast between elements

Line – elements of varying textures & forms bring about a contrasting effect

Application

Still Photography
Instructions: (Individual)
Photoshoot: Using your own thing/s, choose one principle of design and take a photo based on your chosen principle.

- Using the share it app, send your taken pictures to your group leader then the leader will upload it to the Group's Google Drive.
- Do not send it to your FB messenger as it will reduce the resolution.

Principles and Elements of Design Rubric

	Excellent	Good	Average	Below Average	Failing
Principles and Elements of Design	Represented use of all principles and elements Displayed a clear effort in regards to decision making	Showed most of the principles and elements Displayed a decent effort in regards to decision making	Showed few of the principles and elements Displayed some effort in regards to decision making	Showed one principle or element Displayed little effort in regard to decision making	Showed no principles or elements Displayed no effort to make appropriate decisions while shooting
Quality	Perfectly in focus- no shakiness or blur Correct exposure and have accurate white balance or range of tones	Mostly in focus- some shakiness or blur Mostly correct exposure/ white balance/ range of tones	Somewhat in focus- lots of shakiness or blur Somewhat correct exposure/ white balance/ range of tones	Barely in focus- mostly shaky and blurry exposure/ white balance/ range of tones are mostly off	Extremely blurred exposure/ white balance/ range of tones are completely off

EXIT Ticketing

The students will accomplish an exit ticket given the format below:
After the conduct of today's lesson:

I learned that _____
I want to learn more about _____
I will apply what I have learned through _____

This activity will be taken for 5 minutes.
The teacher will ask students the application/ importance or its relationship to other discipline. Relate or give importance of having knowledge about the topic presented, give examples of other disciplines were the topic presented is applicable.

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EVALUATION	Post-test Directions: Read each statement or question carefully. Write the correct answer on your notebook. 1. A sense of the distance between elements. 2. It is the popular image file format used by digital cameras to store photos. 3. Elements on either side of the axis are arranged similarly. 4. It has the ability to read CMYK and YCBCR color and has the ability to store such high pixel intensity. 5. It is the sources of data or information in the form of visual representation. Key to Correction:
HOMEWORK	...concepts of manipulative media.
Remarks	

Index of Mastery

INDEX OF MASTERY

INDEX OF MASTERY To get the Index of Mastery =(Total Item*Frequency/(Total Frequency*Highest Possible Raw Score))*100			96.59%
SECTION	**ITEMS**	**FREQUENCY**	**ITEM * FREQUENCY**
HUMSS11D	5	34	170
	4	7	28
	3	0	0
	2	0	0
	1	0	0
	Total	41	198

Number of Learners Within Mastery Level	34 out of 41 students reached the mastery level
Number of Learners Needing Reinforcement	0 out of 41 students needed reinforcement
Number of Learners Needing Remediation	0 out of 41 students needed remediation
Reflection	Power Point presentations are also very useful for students. It facilitates easy and faster delivery of the lesson. Respecting student's point of view is very much needed inside the classroom. They will do the same thing to their fellow students.

Prepared by:	Checked:	Noted:
JERICO D. CASTILLO Teacher III	**GERALDIN M. TABING, EdD** Master Teacher II	**ADORANDO R. DARVIN** Principal II

Republic of the Philippines
Department of Education
REGION IV-A CALABARZON
SCHOOLS DIVISION OF BACOOR CITY
SHS IN SAN NICHOLAS III, BACOOR CITY
SAN NICOLAS III, CITY OF BACOOR, CAVITE

Daily Lesson Log in Media and Information Literacy

Date:	March 6, 2020	**Grade Level:**	11
Section/ Time:	HUMSS 11D / 11:00 – 12:00	**Quarter:**	4th

OBJECTIVES	At the end of the lesson, 80% of the students should be able to: (1) describe ubiquitous learning; (2) discuss some of the technological advancements; and (3) create a simple paper prototype.
Content Standard	The learner demonstrates understanding of different resources of media and information, their design principle and elements, and selection criteria.
Performance Standard	The learner produces a living museum or electronic portfolio or any creative forms of multimedia showcasing their/ his/ her understanding, insights, and perceptions of the different resources of media and information.
Learning Competencies	▪ evaluates current trends in media and information and how it will affect/ how they affect individuals and the society as a whole ▪ describes massive open on-line ▪ predicts future media innovation ▪ synthesizes the overall knowledge about media and information with skills for producing a prototype of what the learners think is a future media innovation
CONTENT	**Visual Information and Media**
REFERENCES/ MATERIALS	Current and Future Trends of Media and Information
Priming/ Review	✓ Prayer ✓ Greetings ✓ Checking of Attendance ✓ State the objectives of the lesson ✓ Motivation: The teacher will show a picture and ask the students what are their observations.  ✓ Pre-test Directions: Read each statement or question carefully. Write the correct answer on your notebook. 1. It is a category of technology devices that can be worn by a consumer. 2. It is a software that examines and reacts to an individual's changing context. 3. It is a process of capturing spoken words using a microphone. 4. It can be defined as an everyday learning environment that is supported by mobile. 5. It is a model for delivering learning content online to any person who wants to take a course. Key to Correction: 1. Wearable Technology 2. Contextual Awareness 3. Voice and Tone Recognition 4. Ubiquitous Learning 5. Massive Open Online Course (MOOC)
Activity	**Watching Videos** The students will watch a video about:

	• Wearable Technology https://www.youtube.com/watch?v=1tlQHh7Rs_g • Haptics Technology https://www.youtube.com/watch?v=6IhQnWb44zk • Contextual Awareness https://www.youtube.com/watch?v=mFnZNNOrA00 • Voice and Tone Recognition https://www.youtube.com/watch?v=7dnXUnswl60 • Eye Tracking Technology https://www.youtube.com/watch?v=XE0aANnzrL8 • Internet Glasses https://www.youtube.com/watch?v=Nc4ox89bofk
Analysis	**Guide Question/s:** **1.** Based on the technological advancements, create a mind map. a. Which one did you like best? b. Which ones already exist? 2. Which ones do you think might become a reality next year?
Abstraction	***Different Technological Advancements*** • *Wearable Technology* - wearable gadgets; category of technology devices that can be worn by a consumer and often include tracking information related to health and fitness • *Haptics Technology* - Haptics (pronounced HAP-tiks); word derives from the Greek haptein meaning "to fasten"; science of applying touch (tactile) sensation and control to interaction with computer applications; used in game controllers, joysticks, and steering wheels and is becoming more common in Smartphones • *Contextual Awareness* - software that examines and reacts to an individual's changing context (situation, environment) - Schilit, Adams, & Want 1994; any information that can be used to characterize the situation of an entity (identity, activity, time, location) - Dey et al., 2000 • *Voice and Tone Recognition* - process of capturing spoken words using a microphone or telephone and converting them into a digitally stored set words; Software is used for automatic translations, dictation, hand-free computing, medical transcription, automated customer service • *Eye Tracking Technology* - about understating the state and activity of the eye and includes: o tracking your point of gaze o duration of your stare at any given point o when you blink and how your pupils react to different visual stimuli • *Ubiquitous Learning* - can be defined as an everyday learning environment that is supported by mobile and embedded computers and wireless networks in our everyday life (Ogata et al. 2009). It is aimed to provide learners with content and interaction anytime and anywhere (Hwang et al. 2008). • *Massive Open Online Course* - model for delivering learning content online to any person who wants to take a course, with no limit on attendance
Application	**Paper Prototype** Instructions: • The task of each group is to design a model of a piece of technology that will help the lives of Filipino students. • Each group will give a name and present their output. **Rubric:** **10 points for clarity –** were the interface details clear? (i.e. buttons labeled, text readable) **15 points for execution –** could a user actually interact with the interface (use post-its or transparency as appropriate, swapping bits in and out) **10 points for completeness –** were all the three tasks actually supported? Could a user do more than one thing at a time? **EXIT Ticketing** The students will accomplish an exit ticket given the format below: After the conduct of today's lesson: I learned that _____ I want to learn more about _____ I will apply what I have learned through _____ This activity will be taken for 5 minutes. The teacher will ask students the application/ importance or its relationship to other discipline. Relate or give importance of having knowledge about the topic presented, give examples of other disciplines were the topic presented is applicable.

EVALUATION	Post-test Directions: Read each statement or question carefully. Write the correct answer on your notebook. 1. It can be defined as an everyday learning environment that is supported by mobile. 2. It is a model for delivering learning content online to any person who wants to take a course. 3. It is a software that examines and reacts to an individual's changing context. 4. It is a category of technology devices that can be worn by a consumer. 5. It is a process of capturing spoken words using a microphone. Key to Correction: ing ine Course (MOOC) ness ology Recognition
HOM	concepts of manipulative media.
Remar	
INDEX OF MASTER	

Index of Mastery

INDEX OF MASTERY

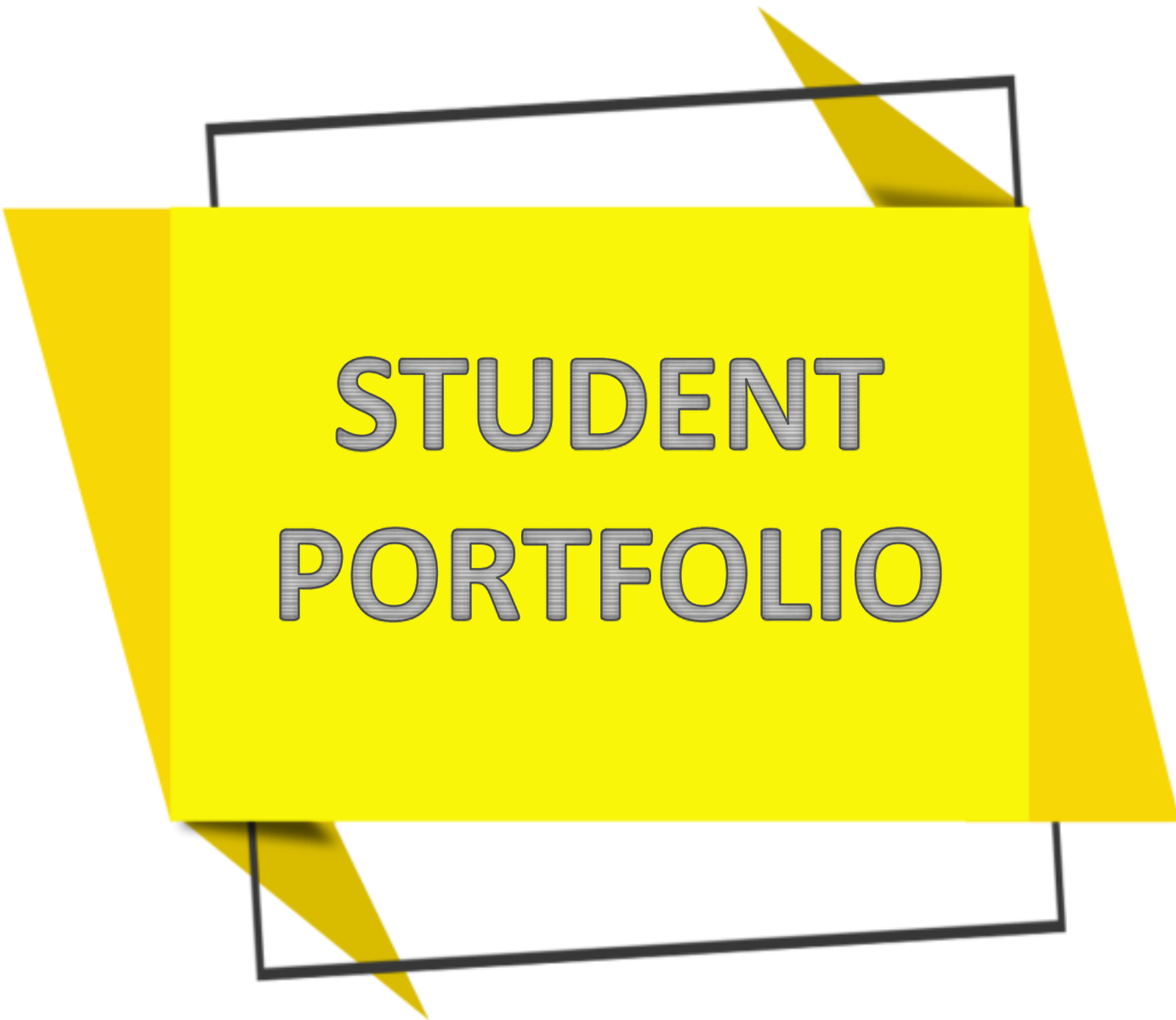
To get the Index of Mastery =(Total Item*Frequency/(Total Frequency*Highest Possible Raw Score))*100

98.95%

SECTION	ITEMS	FREQUENCY	ITEM * FREQUENCY
HUMSS11D	5	36	180
	4	2	8
	3	0	0
	2	0	0
	1	0	0
	Total	38	188

Number of Learners Within Mastery Level	36 out of 38 students reached the mastery level
Number of Learners Needing Reinforcement	0 out of 38 students needed reinforcement
Number of Learners Needing Remediation	0 out of 38 students needed remediation
Reflection	Collaboration is evident and effective during the delivery of my lesson. The students are seen to be very cooperative in learning process. Always showing positivity in everything encourages the students to do more and strive more to please their teacher and get the good grades that they wanted was very evident inside the classroom. Happiness is the best thing to be shown to the students.

Prepared by:	Checked:	Noted:
JERICO D. CASTILLO Teacher III	**GERALDIN M. TABING, EdD** Master Teacher II	**ADORANDO R. DARVIN** Principal II


STUDENT
PORTFOLIO

Student Portfolio

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Department of Education
Region IV-A (CALABARZON)
CITY SCHOOLS DIVISION OF BACOOR
SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

INDIVIDUAL REPORT OF ACTIVITIES IN
Computer Systems Servicing NCII (First Quarter)

Name: Tabernilla, Louie P **Section:** ICT 12B

Written Works

Code	Activity Name	Score
WW1	Assemble Computer Hardware	36/40
WW2	Prepare Installer	18/18
WW3	Install Operating System and Drivers for Peripherals/ Devices	19/21
WW4	Install Application Software	14/15
WW5		
WW6		
WW7		
WW8		
WW9		
WW10		

Performance Tasks

Code	Activity Name	Score
PT1	PC Disassembly	10/10
PT2	PC Assembly	10/10
PT3	Diskpart	10/10
PT4	BIOS Configuration/ Boot Priority	10/10
PT5	Disk Partition	10/10
PT6	Windows 7 Installation	10/10
PT7	Driver Pack Installation	10/10
PT8	Application Software Installation	10/10
PT9	Printer Installation	10/10
PT10		
PT11		
PT12		
PT13		
PT14		
PT15		
PT16		
PT17		
PT18		
PT19		
PT20		

Quarterly Assessment

Code	Activity Name	Score
QA1		51/70

Checked:

JERICO D. CASTILLO
Teacher III

Prepared by:	Checked:	Noted & Approved:	Parent's Signature:
JERICO D. CASTILLO Teacher II	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	REBECCA TABERNILLA Signature Over Printed Name

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Department of Education
Region IV-A (CALABARZON)
CITY SCHOOLS DIVISION OF BACOOR
SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

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WRITTEN WORK # 1 – Assemble Computer Hardware

Name:	Tabernilla, Louie P.	**Date:**	
Section:	1GT3A3	**Score:**	36/40
Lesson	**Installing and Configuring Computer Systems (ICCS)**		
Learning Competencies	***LO1: Assemble Computer Hardware*** 1.1 Plan unit assembly to ensure OHS policies and procedures are followed in accordance with systems requirements 1.2 Prepare unit assembly to ensure OHS policies and procedures are followed in accordance with systems requirements 1.3 Identify materials necessary to complete the work in accordance with established procedures and check against system requirements 1.4 Obtain materials necessary to complete the work in accordance with established procedures and check against system requirements 1.5 Obtain tools, equipment and testing devices needed to carry out installation work in accordance with established procedures and check for correct operation and safety 1.6 Assemble computer hardware in accordance with established procedures and system requirements 1.7 Perform BIOS configuration in accordance with hardware requirements		

I. Identification: Directions: Identify the following statement.

Random Access Memory	Central Processing Unit	Motherboard	Graphics/ Video Card	Wireless Local Area Network Card
Power Supply	Central Processing Unit Socket	Form Factor	Hard Disk Drive	Integrated Drive Electronics Controller
24-Pin Advanced Technology eXtended Power Slot	Complementary Metal Oxide Semiconductor Battery	RAM Slot	Southbridge	Northbridge

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Random Access Memory 1. It is also known as memory, main memory or system memory.
Motherboard 2. It is a main circuit board inside a computer that connects the different parts.
Central Processing Unit 3. It handles and controls all the instructions and data flow to and from other parts of the computer.
Video Card 4. It is an expansion card that allows the computer to send graphical information to a video display device.
Wireless Local Area Network Card 5. It provides wireless connectivity to the Local Area Network.
Power Supply 6. It is used to convert the power provided from the outlet into usable power for the many parts inside the computer case.
Hard Disk Drive 7. It is used to store information like software and files.
Form Factor 8. It determines the general layout, size and feature placement on the motherboard.
Central Processing Unit Socket 9. It is the connection that allows a computer processor to be connected to a motherboard.
24-Pin Advanced Technology eXtended Power Slot 10. It is used to connect power supply wires.
Ram Slot 11. It allows computer memory to be inserted into the computer.
Southbridge 12. It is an integrated circuit on the motherboard that is responsible for the hard drive, I/O controller and integrated hardware.
Northbridge 13. It is integrated circuit that is responsible for communications between the CPU interface, AGP and the memory.
CMOS 14. It is a button cell battery that gives power to CMOS.
IDE 15. It is where to insert the other end of the IDE cable.

II. Modified True or False: Directions: Indicate whether the statement is True or False. If false, change the identified or underlined word or phrase to make the statement true.

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True 1. **AGP slot** is where to insert the AGP video card.
True 2. **PCI slot** is a standard widely used by expansion card manufacturers.
Input/Output Controller 3. **IDE controller** is a type of interface which a peripheral attach to or communicates with the system unit.
Peripheral Devices 4. **Input devices** are hardware devices that are attached to the computer and are controlled by the computer system.
Keyboard 5. **Mouse** is a device that enables a user to input text into a computer.
Mouse 6. **Keyboard** is a device used to control the cursor or pointer on the screen.
Monitor 7. **Graphics Card** displays the video and graphics information generated by the computer through video card.
Printer 8. **Photocopier** accepts text and graphic output from a computer and transfers the information to paper.
Speakers 9. **Microphone** converts analog audio signals into equivalent air vibrations in order to make audible sound.
Webcam 10. **Digital Camera** is a device that record videos or take pictures and can be used in video conferencing.

III. Multiple Choice: Directions: Read and understand the statement. Choose the correct answer.

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B 1. It is a connector plug and socket widely used for analog audio signals in portable devices.
a. USB Cable b. Audio Cable c. Video Cable d. Power Cable

A 2. It carries visual display data from the CPU to the monitor.
a. VGA Cable b. HDMI Cable c. DVI Cable d. USB-C Cable

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JERICO D. CASTILLO Teacher II	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	REFELIA TABERNILLA Signature Over Printed Name

B 3. It is used to transmit audio and video data in a single cable.
a. VGA Cable b. HDMI Cable c. DVI Cable d. USB-C Cable

D 4. It is the primary cable that provides power to the computer.
a. USB Cable b. Audio Cable c. Video Cable d. Power Cable

A 5. It is the normal beeps on computer startup.
a. 1 or 2 b. 2 or 3 c. 3 or 4 d. 4 or 5

A 6. It happens each time your turn the computer on.
a. POST b. STOP c. HANG d. BUFFER

A 7. It is used to power the computer on and off.
a. Power Button b. Reset Button c. Idle Button d. Hibernate

A 8. It is used to prevent ESD damage to computer equipment.
a. Anti-static wrist strap b. Anti-static mat c. Multimeter d. Lookback Adapter

A 9. It is used to loosen or tighten crosshead screws.
a. Flat head screwdriver b. Philips screwdriver c. Torx screwdriver d. Hex driver

B 10. It is used to manipulate small parts.
a. Tweezers b. Parts retriever c. Torx screwdriver d. Hex driver

IV. **Enumeration: Directions:** List down at least 5 Occupational Health and Safety Standards.

5

1	Always power off the computer.
2	Do not work alone.
3	Always discharge.
4	Take away any liquid.
5	Always wear PPE

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JERICO D. CASTILLO Teacher II	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	Signature Over Printed Name

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Region IV-A (CALABARZON)
CITY SCHOOLS DIVISION OF BACOOR
SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

Student Portfolio

WRITTEN WORK # 2 – Prepare Installer

Name:	Tabernilla, Louie P.	**Date:**	
Section:	ICT12B	**Score:**	16/18
Lesson	**Installing and Configuring Computer Systems (ICCS)**		
Learning Competencies	***LO2: Prepare Installer*** 2.1 Create portable bootable devices in accordance with software manufacturer instruction 2.2 Prepare customized installers in accordance with software utilization guide and end user agreement 2.3 Carry out installation of portable applications in accordance with software user guide and software license		

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I. **Chronological Order: Directions:** Arrange the step-by-step procedure in creating USB bootable devices using diskpart **in order**. Use only numbers.

3	Type the following command to launch DiskPart and press Enter: **diskpart**
1	Open Start.
2	Search for Command Prompt, right-click the top result, and select the Run as administrator.
4	Type the following command to list all the drives connected to your computer and press Enter: **list disk**
6	Type the following command to wipe out the drive and press Enter: **clean**
8	Type the following command to select the new primary partition and press Enter: **select partition 1**
5	Type the following command to select the drive that you want to clean and press Enter: **select disk 1** *In the command, make sure to replace 1 for the drive number that you want to delete. If you don't do this step correctly, you could end up wiping out the wrong drive, as such proceed with caution.*
9	Type the following command to make the selected partition active and press Enter: **active**
7	Type the following command to create a new partition on the drive and press Enter: **create partition primary**
10	Type the following command to format the partition using the Microsoft NTFS file system and to set a drive label, and press Enter: **format fs=ntfs label=Data quick** *In the command, remember to replace Data for the name of the drive that you want to see when using File Explorer. Also, the quick flag is optional, but if you don't use it, the format will take a long time.*
12	Type the following command to terminate DiskPart and press Enter: **exit** *Once you complete the steps, if the drive didn't have any physical issues, it should be available through File Explorer, and you can begin storing files on it.*
11	Type the following command to assign a letter and make the drive available in File Explorer and press Enter: **assign letter=x** *In the command, replace x with the drive letter that you want to use, and it's not assigned by another drive.*
13	Copy the Windows 7 files from the originating drive location and paste it to the USB flash drive where you can save the Windows 7 files.

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II. **Multiple Choice: Directions:** Read and understand the questions. Choose the correct option.

A 1. Which is any piece of hardware that can read or contains the files required for a computer to start?
   a. Boot device
   b. CMOS
   c. Peripheral device
   d. Storage device

b 2. Which of the following is NOT an example of bootable devices?
   a. Hard drive
   b. USB flash drive
   c. CD-ROM drive
   d. Driver pack

C 3. Which installation method is used in finding an installer file and (double)-clicking to start the installation?
   a. Software compilation
   b. Software archives
   c. Installer packages
   d. Software managers/ stores

B 4. Which installation method is used in unpacking archives such as ZIP files and running the program from wherever you extracted it?
   a. Software compilation
   b. Software archives
   c. Installer packages
   d. Software managers/ stores

D 5. Which of the following is the first step in setting up a desktop computer?
   a. Locate the monitor cable.
   b. Unpack the mouse.
   c. Unpack the keyboard.
   d. Unpack the monitor and computer case from the box.

Prepared by:	Checked:	Noted & Approved:	Parent's Signature:
JERICO D. CASTILLO Teacher II	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	Signature Over Printed Name

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Tel No. (046) 236 3371 / Cell No. 0917-1264983

Student Portfolio

WRITTEN WORK # 3 – Install Operating System and Drivers for Peripherals/ Devices

Name:	Tabernilla Louie P.	**Date:**	
Section:	ICT12B	**Score:**	19/21
Lesson	**Installing and Configuring Computer Systems (ICCS)**		
Learning Competencies	***LO3: Install Operating System and Drivers for Peripherals/ Devices*** 3.1 Install Operating System (OS) in accordance with established installation procedures and to comply with end-user requirements 3.2 Install peripherals/ devices in accordance with manufacturer's instructions and/ or OS installation procedures 3.3 Configure peripherals/ devices in accordance with manufacturer's instructions and/ or OS installation procedures 3.4 Access OS and drivers updates/ patches in accordance with manufacturer's recommendations and requirements 3.5 Install OS and drivers updates/ patches in accordance with manufacturer's recommendations and requirements 3.6 Check the quality of the work undertaken in accordance with established procedures		

I. **Chronological Order: Directions:** Arrange the step-by-step procedure in Windows 7 installation **in order**. Use only numbers.

11

3	Immediately press Del, Esc, F2, F10, or F9 when it restarts.
1	Backup files.
8	Click the Install Now. It's the blue button in the center of the screen.
2	Restart computer.
7	Choose your Windows Setup options. Use the drop-down menus to select your preferred language, keyboard type, and time/ currency format, then click **Next** in the lower-right corner.
4	Find BIOS's boot options menu.
9	Accept the License Terms. Read over the Microsoft Software License Terms, check *I accept the license terms*, and click **Next** in the lower-right corner.
5	Select the USB flash drive as the first boot device of the computer.
6	Save the changes in the settings. Shut off/ restart the computer.
10	Select the **Custom** installation.
12	Install Windows on your preferred hard drive and partition.
11	Select a hard drive and partition you want to install Windows on.

II. **Multiple Choice: Directions:** Read and understand the questions. Choose the correct option.

8

A 1. Which menu is accessible when a computer is first starting up?
- a. Boot Menu
- b. Security Menu
- c. Boot Priority Menu
- d. POST

C 2. Which is the hotkey to enter BIOS Configuration of American Megatrends and Phoenix Technologies?
- a. F2
- b. F12
- c. Del
- d. Esc

D 3. Which tab in the BIOS will you go to modify the boot order/ sequence?
- a. Main
- b. Advanced
- c. Security
- d. Boot

C 4. Which is the function key to save changes in BIOS?
- a. F1
- b. Esc
- c. F10
- d. F9

A 5. Which is the hotkey to change Values?
- a. - +
- b. ▲ ▼
- c. { }
- d. [ ]

A 6. Which is the default boot device of the computer?
- a. Hard drive
- b. USB flash drive
- c. CD-ROM drive
- d. Floppy disk drive

C 7. If the total hard disk drive is 200 Gigabytes, what will be the conversion of 100 Gigabytes in Megabytes?
- a. 1000
- b. 10000
- c. 100000
- d. 1000000

A 8. What is the size of the System Reserved partition in Windows 7?
- a. 100 MB
- b. 350 MB
- c. 500 MB
- d. 600 MB

A 9. Which partition where you can install Windows 7 operating system?
- a. Disk 0 Partition 1: System Reserved
- b. Disk 0 Partition 2: System Reserved
- c. Disk 0 Partition 2 Primary
- d. Disk 0 Unallocated Space

A 10. Which window will you open to update or install peripheral drivers?
- a. Computer Management
- b. Device Manager
- c. System Configuration
- d. DirectX Diagnostic Tool

Prepared by:	Checked:	Noted & Approved:	Parent's Signature:
JERICO D. CASTILLO Teacher II	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	REBECCA TABERNILLA Signature Over Printed Name

Republic of the Philippines
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SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3371 / Cell No. 0917-1264983

Student Portfolio

WRITTEN WORK # 4 – Install Application Software

Name:	Tabernilla, Lowie P.	**Date:**	
Section:	IG12B	**Score:**	14/15
Lesson	**Installing and Configuring Computer Systems (ICCS)**		
Learning Competencies	***LO4: Install Application Software*** 4.1 Install Application Software based on software installation guides, end-user requirements and software license agreement 4.2 Carry out variation to application software in accordance to customer/ client requirements 4.3 Access software updates in accordance with manufacturer's recommendations and requirements 4.4 Install software updates in accordance with manufacturer's recommendations and requirements		

I. **Modified True or False: Directions:** Indicate whether the statement is True or False. If false, change the identified or underlined word or phrase to make the statement true.

True 1. Software installers are usually named something like **setup.exe or install.exe**.

True 2. When you download the Firefox web browser, the installer is named something like **firefox setup.exe**.

True 3. The default installation directory of the application software is located to **Local Disk (D:)**.

True 4. **Do not shutdown** your computer off during the update process to prevent corruption of the operating system.

Device Driver 5. **Application software** are software modules that can be plugged into an operating system to handle particular device.

BIOS 6. **Hardware device** is the most basic computer driver in existence and is designed to boot the hardware connected to the PC.

Applications Software 7. **Device driver** is a term which is used for software created for a specific purpose.

true 8. **Packaged software** is sold in stores or downloadable from the WWW.

Copyrighted 9. Freeware is acquired for free but **uncopyrighted**.

True 10. Shareware is freely distributed for a **trial period**.

Public-domain Software 11. **Open-source software** is un-copyrighted and may be used without restriction.

Open Source Software 12. **Public-domain software** is free to all and source code is distributed.

Software license Agreement 13. **Hardware License Agreement** is the legal contract between the licensor and/ or author and the purchaser of a piece of software which establishes the purchaser's rights.

Diagnostic Program 14. **Troubleshooter** is a software tool used to diagnose problems with a particular set of hardware devices.

Disk Management 15. **Partition Manager** is a utility built into Windows Vista, Windows 7, Windows 8, and Window 10 which can be used to create, delete, and format partitions.

Prepared by:	Checked:	Noted & Approved:	Parent's Signature:
JERICO D. CASTILLO Teacher II	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	BERLICA TABERNILLA Signature Over Printed Name

Republic of the Philippines
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Region IV-A (CALABARZON)
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Student Portfolio

FIRST QUARTERLY ASSESSMENT IN COMPUTER SYSTEMS SERVICING NC II (3)

Name:	Tabernilla, Josie P.	**Date:**	
Section:	ICT12B	**Score:**	47/73
Lesson/s:	**Installing and Configuring Computer Systems (ICCS) and Set-Up Computer Networks (SUCN)**		

I. Multiple Choice: Read and understand each statement. Choose the best/ correct letter of your answer. Write it on the blank provided before each number.

A 1. Which type of memory that holds data ONLY when the power is ON?
a. RAM b. ROM c. BIOS d. CMOS

A 2. Student X is a graphic designer. He observed that his computer display responds at a snail's pace. What computer component he needs to upgrade?
a. Graphics Card b. RAM c. ROM d. Expansion Card

B 3. If the supply of electricity rises and falls, what voltage regulator is HIGHLY RECOMMENDED by the computer technician to protect your computer from any damage?
a. AVR b. UPS c. Outlet d. CMOS battery

C 4. Which of the following storage device has a bigger size/ storage capacity?
a. CD-ROM b. DVD-ROM c. HDD d. Diskette

C 5. Student X heard 4 short beeps when he turns on the computer. What he will do to troubleshoot the error/ problem?
a. Reseat the CPU.
b. Reseat or replace any expansion cards.
c. Reseat the RAM and then replacing it if that doesn't work.
d. Replace whatever faulty hardware is causing the problem.

C 6. Which is NOT TRUE about Power-On-Self-Test?
a. It is the initial set of diagnostic tests performed by the computer right after it's powered on.
b. It is the first step of the boot sequence.
c. It depends on any specific operating system.
d. It checks that basic system devices are present and working.

B 7. Which program is used to control and manage the hardware and other software on a computer?
a. Application Software b. Operating System c. Utility Software d. Antivirus

D 8. Student X bought new computer. What he will do first?
a. Locate the monitor cable. c. Unpack the keyboard.
b. Unpack the mouse. d. Unpack the monitor and computer case from the box.

A 9. Which are the normal beeps on computer startup?
a. 1 or 2 b. 2 or 3 c. 3 or 4 d. 4 or 5

B 10. Which component handles and controls all the instructions and data flow to and from other parts of the computer?
a. RAM b. CPU c. AGP d. Motherboard

A 11. Student X found out that the LAN port is not working properly. How will he able to check if the LAN port is installed?
a. Device Manager b. Network and Sharing Center c. Devices and Printers d. Administrative Tools

A 12. Student X task to create a bootable USB flash drive using command prompt. What is the first line command to manage PC's drives?
a. diskpart b. diskraid c. diskshadow d. diskcomp

B 13. Which command removes any and all partition or volume formatting from the disk with focus?
a. format b. clean c. remove d. delete

A 14. Which command generates a partition on a disk, a volume on one or more disks, or virtual hard disk?
a. create b. select c. active d. assign

B 15. Which command shifts the focus to a disk, partition, volume, or virtual hard disk?
a. create b. select c. active d. assign

C 16. Which is NOT A CONSIDERATION before installing a new software?
a. Make sure the computer meets the system requirements of the program, game, or utility.
b. It is always a good idea to close first or disable any other programs that are running.
c. After installing a new program, if it prompts you to reboot the computer, do it later.
d. The manual or the readme file contains exact instructions on how to install a program and are in the same directory as the installation files.

A 17. Which type of application packages is a type of software that can perform many different related tasks?
a. general-purpose b. integrated c. specialist d. tailor-made

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D 18. Which is a single file that represents an entire CD, DVD or BD?
a. setup.exe b. iso.exe c. app file d. iso file

A 19. Which is the recommended third-party software in creating bootable USB flash drive?
a. Rufus b. Power ISO c. AVG d. Kaspersky

D 20. Which of the following is NOT an example of bootable devices?
a. Hard drive b. CD-ROM drive c. USB flash drive d. Driver pack

D 21. Student X is task to reformat a computer. What step he should do first?
a. Create a bootable USB flash drive. c. Buy a CD installer.
b. Check the computer system specifications. d. Back up the computer.

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a. 1st Boot Priority [USB Storage Device] c. 3rd Boot Priority [USB Storage Device]
b. 2nd Boot Priority [USB Storage Device] d. 4th Boot Priority [USB Storage Device]

B 23. If the total hard disk drive is 200 Gigabytes, what will be the conversion of 250 Gigabytes in Megabytes?
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A 24. What is the size of the System Reserved partition in Windows 7?
a. 100 MB b. 500 MB c. 350 MB d. 600 MB

C 25. Which partition where you can install Windows 7 operating system?
a. Disk 0 Partition 1: System Reserved c. Disk 0 Partition 2 Primary
b. Disk 0 Partition 2: System Reserved d. Disk 0 Unallocated Space

C 26. Which installation method is used in finding an installer file and (double)-clicking to start the installation?
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C 27. What device is used to connect hosts to an ethernet LAN and requires a straight-through UTP cable between the hosts and this device?
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b. better security d. less expensive NIC cards

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a. 192.168.0.1 b. 192.168.0.2 c. 192.168.1.1 d. 192.168.1.2

A 34. Student X applied for internet connection at home. How he will able to configure the router's password?
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- Open any browser > Type in 192.168.254.254 in the URL bar. > Wireless > Wireless Advanced

C 35. Student X access the Wi-Fi of his neighbor but his neighbor found out that someone is connected to his Wi-Fi without permission. How his neighbor will be able to deny his access without changing the router's password?
a. Open any browser > Type in 192.168.254.254 in the URL bar. > Wireless > Wireless Security
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Enumeration: List at least five (5) Occupational Health and Safety Standards. (5 pts) (in any order)

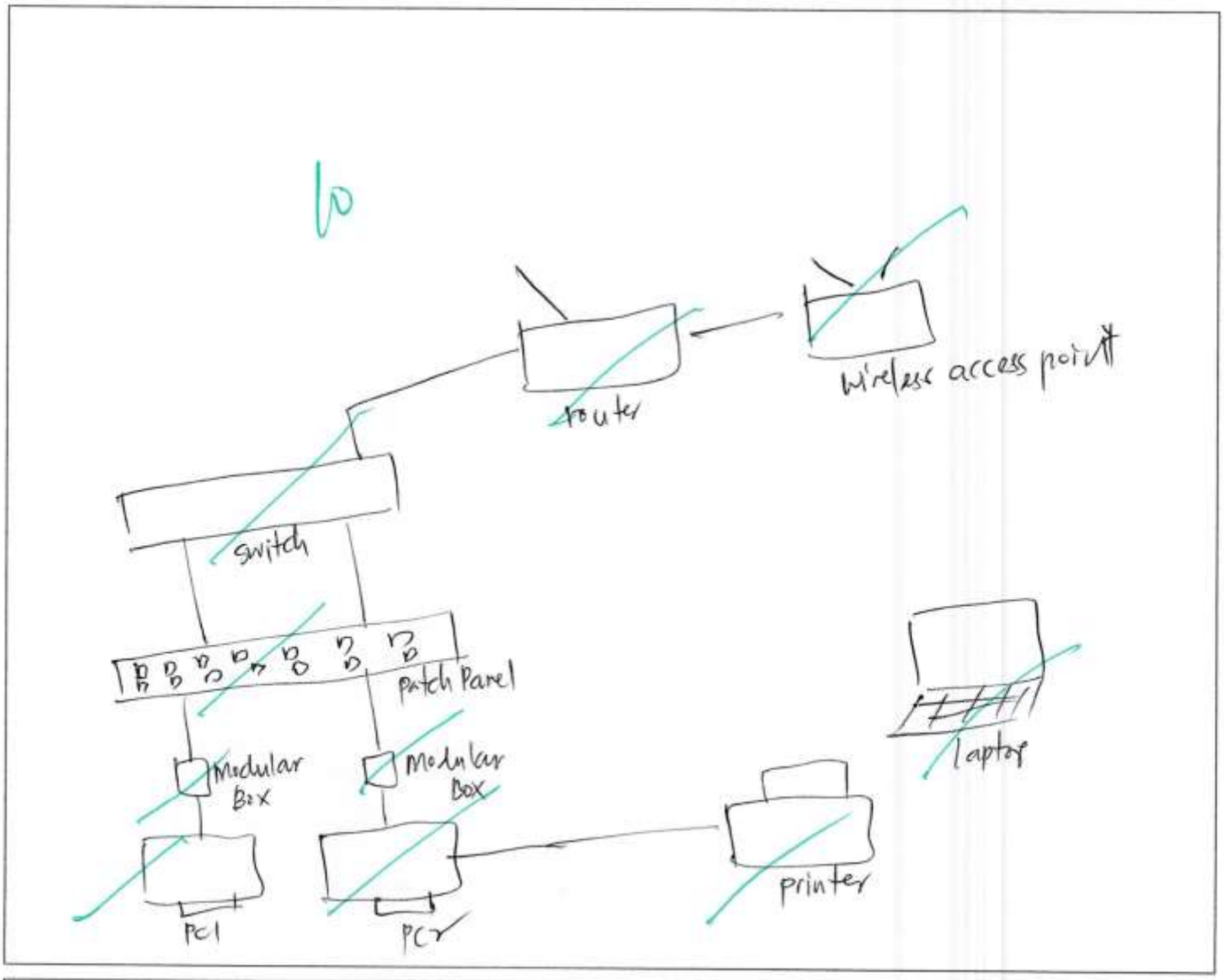
1	Always power off the computer.
2	Always ground yourself
3	Do not work alone
4	Take away any liquid.
5	Clean the area.

Complete the table: Fill in the straight through color coding in the missing space/ cell. (5 pts)

Pin Number	Color
1	White Orange
2	Orange
3	White Green
4	Blue
5	White Blue
6	Green
7	White Brown
8	Brown

Diagram: Create a network layout for SHS in San Nicholas III, Bacoor City Library with 10 computer clients. Label/ name each component. Identify the following:

- Server name and IP address
- Client's IP address
- Printer, router, switch, modular box, patch panel, straight through cables, smart phone, laptop (10 points)



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Identification: Identify what is needed to the statement about computer disassembly. **(20 pts)**

Step 1: Power Off the Computer.

Turn off the power to the computer and disconnect the power cable from the wall and the power supply.

Step 2: Open the Computer Case.

Locate all of the screws that secure the side panels to the back of the computer. Use the proper size and type of screwdriver to remove the side panel screws. Do not remove the screws that secure the power supply to the case. Put all of these screws in one place, such as a compartment in the parts organizer or small cup. Label the compartment or cup with a piece of masking tape on which you have written 'side panel screws'. Remove the side panels from the case.

If you have a camera or smartphone, take a picture of the inside of the compute case to be used as a reference when reassembling the computer.

Note: Some manufacturers do not use screws to fasten components inside of the computer case. Some may use plastic or metal clips that fasten components to the computer chassis. Be careful to remove only screws that are holding components in place, and not the screws that hold components together.

1. **What type of screwdriver did you use to remove the screws?** Philips screwdriver
2. **How many screws secured the side panels?** _____

Step 3: Antistatic Wrist Strap.

Put on an antistatic wrist strap. Connect one end of the conductor to the wrist strap. Clip the other end of the conductor to an unpainted, metal part of the case.

If you have an antistatic mat, place it on the work surface and put the computer case on top of it. Ground the antistatic mat to an unpainted, metal part of the case.

Step 4: Remove the Hard Drive.

Locate the hard drive. Carefully disconnect the power and data cables from the back of the hard drive.

3. **Which type of data cable did you disconnect?** _____

Locate all of the screws that hold the hard drive in place. Use the proper size and type of screwdriver to remove the hard drive screws. Put all of these screws in one place and label them.

4. **What type of screws secured the hard drive to the case?** _____
5. **How many screws secured the hard drive to the case?** _____
6. Is the hard drive connected to a mounting bracket? If so, what type of screws secure the hard drive to the mounting bracket? _____

Caution: Do NOT remove the screws that hold the hard drive together.

Gently remove the hard drive from the case. Look for a jumper reference chart on the hard drive. If there is a jumper installed on the hard drive, use the jumper reference chart to see if the hard drive is set for a Master, Slave, or Cable Select (CS) drive. Place the hard drive in an antistatic bag.

7. What is the jumper setting of the hard drive? _____

Step 5: Remove Optical Drive.

a. Locate the optical drive (Blu-ray, DVD, etc.). Carefully disconnect the power and data cables from the optical drive. Remove the audio cable from the optical drive if there is one connected.

8. What kind of data cable did you disconnect? _____
9. Is there a jumper on the optical drive? What is the jumper setting? _____

b. Locate and remove all of the screws that secure the optical drive to the case. Put all of these screws in one place and label them. Place the optical drive in an antistatic bag.

10. How many screws secured the optical drive to the case? _____

Step 6: Remove the Power Supply.

a. Locate the power supply. Find the power connection(s) to the motherboard.
b. Gently remove the power connection(s) from the motherboard. How many pins are there in the motherboard connector?
11. _____
c. Disconnect the power cables from any case fans.
d. Disconnect the power cable from the video card if it requires one.

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e. Disconnect any other power supply cables from where they were connected.

12. If there were additional cables disconnected, to what were they connected? _____

f. Locate and remove all of the screws that secure the power supply to the case. Put all of these screws in one place and label them.

Step 7: Remove Adapter Cards.

a. Locate any adapter cards that are installed in the computer, such as a video, NIC, or sound card.

b. Locate and remove the screw that secures the adapter card to the case. Put the adapter card screws in one place and label them.

c. Carefully remove the adapter card from the slot. Be sure to hold the adapter card by the mounting bracket or by the edges. Place the adapter card in an antistatic bag. Repeat this process for all of the adapter cards.

Note: Be very careful when removing video adapters. There is often a locking tab on the slot that must be released before the card can be removed.

d. List the adapter cards and the slot types below.

Adapter Cards	Slot Type (e.g. PCI)
13.	
14.	
15.	

Step 8: Remove Memory Modules.

a. Locate the memory modules on the motherboard.

16. What type of memory modules are installed on the motherboard? _____

17. How many memory modules are installed on the motherboard? _____

b. Remove the memory modules from the motherboard. Be sure to release any locking tabs that may be securing the memory module. Hold the memory module by the edges and gently lift out of the slot. Put the memory modules in an antistatic bag.

Step 9: Remove Data Cables.

a. Remove all data cables from the motherboard. Make sure to note the connection location of any cable you disconnect.

18 – 20. What types of cables were disconnected? _____

The computer case should contain the motherboard, the CPU, and any cooling devices. Do not remove any additional components.

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COC 1: Install and Configure a Computer System (ICCS)

Name:	Tabernilla, Louie P.		
Section:	10512B	**Date:**	
Time Started:		**Time Ended:**	

INVENTORY OF COMPONENTS

Components	Screws	Yes	No	System Specifications
Power Supply	4	/		Manufacturer: _____ Watts: _____
Hard Disk Drive	2	/		Size: 80 GB
Motherboard	6	/		System Model: _____
RAM			/	Size: 4000 MB
Sound Card	1	/		
Video Card	1	/		Manufacturer: Intel Chip Type: Intel(R) UHD Graphics Family Approx. Total Memory: 4453MB
Optical Disk Drive	2	/		
CPU			/	Manufacturer: Intel Core/s: i5 Clock speed/rate: 2.20GHz
Cooling Fan			/	
System Fan	4	/		
Case	4	/		
Operating System Used:				Edition: Windows 10 Version: Home OS Build: 18363

Put check in Yes if the component is existing and vice versa.

No	Activities	Time HH	Time MM	Time SS	Remarks
1	Disassembly	17	32	00	
2	Assembly				
3	Diskpart		6	00	
	• Command Prompt				
	• Rufus				
4	BIOS Configuration/ Boot Priority		13	00	
5	Disk Partition				
6	Windows 7 Installation				
7	Driver Pack Installation				
8	Application Software Installation		6	09	
9	Printer Installation		1	00	
	Total Time:				

General Observations:
Follow strictly occupational health and safety standards.

JERICO D. CASTILLO
Teacher's Signature over Printed Name

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COC 2: SET-UP COMPUTER NETWORKS (SUCN)

Name:	Tabernilla, Lorie P.		
Section:	IGT12B	**Date:**	
Time Started:		**Time Ended:**	

No	Activities	Time			Remarks
		HH	MM	SS	
1	Lay outing network layout		3	00	
2	(5 pcs) Creating straight-through cables		12	21	
3	Punching wires into keystone and patch panel		5	00	
4	Connecting patch panel, keystone, switch hub, router and computer		10	50	
5	Configuring Router (SSID and Password)		1	27	
6	Changing computer name and workgroup		2	50	
7	Filtering MAC Address		4	00	
8	Assigning static IP address, subnet mask and default gateway		3	27	
9	Turning on/ off Windows Firewall		1	29	
10	Testing network connectivity (ping)			30	
11	Sharing folder and file and turning on network discovery		1	57	
12+	Remote Desktop Connection		5	57	
	Total Time:				

General Observations:
follow strictly OHS.

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Teacher's Signature over Printed Name

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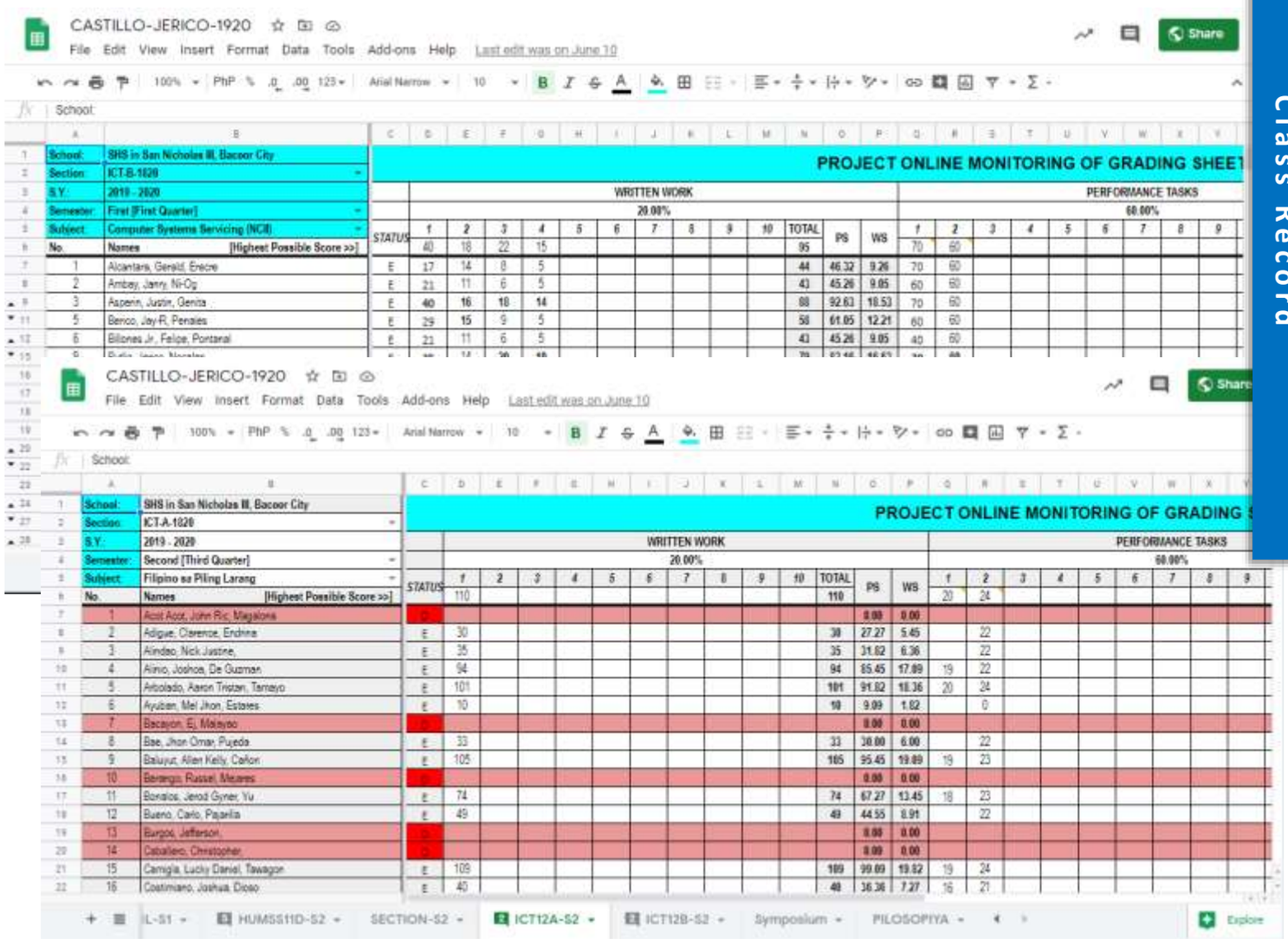
Annotations

You can visit the website to see the student's works

https://theicthinkers.weebly.com/


CLASS RECORD



**For security purposes, you can ask a full access to the owner to full view his class record.*

The teacher handled the following sections for School Year 2019-2020

First Semester

- ICT 12B (Computer Systems Servicing NC II, Introduction to the Philosophy of Human Person, and Filipino sa Piling Larang)

Second Semester (Computer Systems Servicing NC II)

- ICT 12A
- ICT 12B
- HUMSS 11D (Media and Information Literacy)

CLASS RECORD

SUMMATIVE ASSESSMENT TOOLS

with TOS and Frequency of Errors
with identified least mastered skills

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Summative Test

FIRST QUARTERLY ASSESSMENT IN COMPUTER SYSTEMS SERVICING NC II (3)

Name:		**Date:**	
Section:		**Score:**	
Lesson/s:	**Installing and Configuring Computer Systems (ICCS) and Set-Up Computer Networks (SUCN)**		

I. Multiple Choice: Read and understand each statement. Choose the best/ correct letter of your answer. Write it on the blank provided before each number.

_____1. Which type of memory that holds data ONLY when the power is ON?
a. RAM b. ROM c. BIOS d. CMOS

_____2. Student X is a graphic designer. He observed that his computer display responds at a snail's pace. What computer component he needs to upgrade?
a. Graphics Card b. RAM c. ROM d. Expansion Card

_____3. If the supply of electricity rises and falls, what voltage regulator is HIGHLY RECOMMENDED by the computer technician to protect your computer from any damage?
a. AVR b. UPS c. Outlet d. CMOS battery

_____4. Which of the following storage device has a bigger size/ storage capacity?
a. CD-ROM b. DVD-ROM c. HDD d. Diskette

_____5. Student X heard 4 short beeps when he turns on the computer. What he will do to troubleshoot the error/ problem?
a. Reseat the CPU.
b. Reseat or replace any expansion cards.
c. Reseat the RAM and then replacing it if that doesn't work.
d. Replace whatever faulty hardware is causing the problem.

_____6. Which is NOT TRUE about Power-On-Self-Test?
a. It is the initial set of diagnostic tests performed by the computer right after it's powered on.
b. It is the first step of the boot sequence.
c. It depends on any specific operating system.
d. It checks that basic system devices are present and working.

_____7. Which program is used to control and manage the hardware and other software on a computer?
a. Application Software b. Operating System c. Utility Software d. Antivirus

_____8. Student X bought new computer. What he will do first?
a. Locate the monitor cable. c. Unpack the keyboard.
b. Unpack the mouse. d. Unpack the monitor and computer case from the box.

_____9. Which are the normal beeps on computer startup?
a. 1 or 2 b. 2 or 3 c. 3 or 4 d. 4 or 5

_____10. Which component handles and controls all the instructions and data flow to and from other parts of the computer?
a. RAM b. CPU c. AGP d. Motherboard

_____11. Student X found out that the LAN port is not working properly. How will he able to check if the LAN port is installed?
a. Device Manager b. Network and Sharing Center c. Devices and Printers d. Administrative Tools

_____12. Student X task to create a bootable USB flash drive using command prompt. What is the first line command to manage PC's drives?
a. diskpart b. diskraid c. diskshadow d. diskcomp

_____13. Which command removes any and all partition or volume formatting from the disk with focus?
a. format b. clean c. remove d. delete

_____14. Which command generates a partition on a disk, a volume on one or more disks, or virtual hard disk?
a. create b. select c. active d. assign

_____15. Which command shifts the focus to a disk, partition, volume, or virtual hard disk?
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_____16. Which is NOT A CONSIDERATION before installing a new software?
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Enumeration: List at least five (5) Occupational Health and Safety Standards. (5 pts) (in any order)

1	
2	
3	
4	
5	

Complete the table: Fill in the straight through color coding in the missing space/ cell. (5 pts)

Pin Number	Color
1	White Orange
2	
3	White Green
4	
5	
6	
7	White Brown
8	

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- Server name and IP address
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Summative Test

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If you have a camera or smartphone, take a picture of the inside of the computer case to be used as a reference when reassembling the computer.

Note: Some manufacturers do not use screws to fasten components inside of the computer case. Some may use plastic or metal clips that fasten components to the computer chassis. Be careful to remove only screws that are holding components in place, and not the screws that hold components together.

1. **What type of screwdriver did you use to remove the screws?** _____
2. **How many screws secured the side panels?** _____

Step 3: Antistatic Wrist Strap.

Put on an antistatic wrist strap. Connect one end of the conductor to the wrist strap. Clip the other end of the conductor to an unpainted, metal part of the case.

If you have an antistatic mat, place it on the work surface and put the computer case on top of it. Ground the antistatic mat to an unpainted, metal part of the case.

Step 4: Remove the Hard Drive.

Locate the hard drive. Carefully disconnect the power and data cables from the back of the hard drive.

3. **Which type of data cable did you disconnect?** _____

Locate all of the screws that hold the hard drive in place. Use the proper size and type of screwdriver to remove the hard drive screws. Put all of these screws in one place and label them.

4. **What type of screws secured the hard drive to the case?** _____
5. **How many screws secured the hard drive to the case?** _____
6. Is the hard drive connected to a mounting bracket? If so, what type of screws secure the hard drive to the mounting bracket? _____

Caution: Do NOT remove the screws that hold the hard drive together.

Gently remove the hard drive from the case. Look for a jumper reference chart on the hard drive. If there is a jumper installed on the hard drive, use the jumper reference chart to see if the hard drive is set for a Master, Slave, or Cable Select (CS) drive. Place the hard drive in an antistatic bag.

7. What is the jumper setting of the hard drive? _____

Step 5: Remove Optical Drive.

a. Locate the optical drive (Blu-ray, DVD, etc.). Carefully disconnect the power and data cables from the optical drive. Remove the audio cable from the optical drive if there is one connected.

8. What kind of data cable did you disconnect? _____
9. Is there a jumper on the optical drive? What is the jumper setting? _____

b. Locate and remove all of the screws that secure the optical drive to the case. Put all of these screws in one place and label them. Place the optical drive in an antistatic bag.

10. How many screws secured the optical drive to the case? _____

Step 6: Remove the Power Supply.

a. Locate the power supply. Find the power connection(s) to the motherboard.
b. Gently remove the power connection(s) from the motherboard. How many pins are there in the motherboard connector?
11. _____
c. Disconnect the power cables from any case fans.
d. Disconnect the power cable from the video card if it requires one.

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JERICO D. CASTILLO Teacher II	**ROI M. FRANCISCO** Teacher II/ ICT Coordinator	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	Signature Over Printed Name

Summative Test

e. Disconnect any other power supply cables from where they were connected.

12. If there were additional cables disconnected, to what were they connected? _____

f. Locate and remove all of the screws that secure the power supply to the case. Put all of these screws in one place and label them.

Step 7: Remove Adapter Cards.

a. Locate any adapter cards that are installed in the computer, such as a video, NIC, or sound card.

b. Locate and remove the screw that secures the adapter card to the case. Put the adapter card screws in one place and label them.

c. Carefully remove the adapter card from the slot. Be sure to hold the adapter card by the mounting bracket or by the edges. Place the adapter card in an antistatic bag. Repeat this process for all of the adapter cards.

Note: Be very careful when removing video adapters. There is often a locking tab on the slot that must be released before the card can be removed.

d. List the adapter cards and the slot types below.

Adapter Cards	Slot Type (e.g. PCI)
13.	
14.	
15.	

Step 8: Remove Memory Modules.

a. Locate the memory modules on the motherboard.

16. What type of memory modules are installed on the motherboard? _____

17. How many memory modules are installed on the motherboard? _____

b. Remove the memory modules from the motherboard. Be sure to release any locking tabs that may be securing the memory module. Hold the memory module by the edges and gently lift out of the slot. Put the memory modules in an antistatic bag.

Step 9: Remove Data Cables.

a. Remove all data cables from the motherboard. Make sure to note the connection location of any cable you disconnect.

18 – 20. What types of cables were disconnected? _____

The computer case should contain the motherboard, the CPU, and any cooling devices. Do not remove any additional components.

Summative Test

KEY TO CORRECTION:

I. Multiple Choice

1. A
2. A
3. B
4. C
5. C
6. C
7. B
8. D
9. A
10. B
11. A
12. A
13. B
14. A
15. B
16. C
17. A
18. D
19. A
20. D
21. D
22. A
23. B
24. A
25. C
26. C
27. C
28. B
29. B
30. B
31. A
32. B
33. A
34. A
35. C

II. Enumeration

- Always power off the computer and unplug the computer before working on it.
- Make sure that your power supply is set to the correct voltage in your area.
- Before installing the Motherboard and adding a device on it, carefully read the entire manual that came with the package.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Always ground or discharge yourself before touching any part of the computer.
- Do not work alone so that there's someone who can take care of you in case of accident or emergency.
- Be careful with the tools that may cause short circuit.
- Do not use excessive force if things don't quite slip into place.
- Make sure that the pins are properly aligned when connecting a cable connector.
- Take away any liquid such as mineral water or soft drinks near your working area or near computers.
- Always wear personal protective equipment (PPE) in accordance with the organization's OHS procedures and practices.
- Clean the area before and after using it to maintain sanitation and prevent accidents.
- Contingency measures during workplace accidents, fire and other emergencies are recognized.

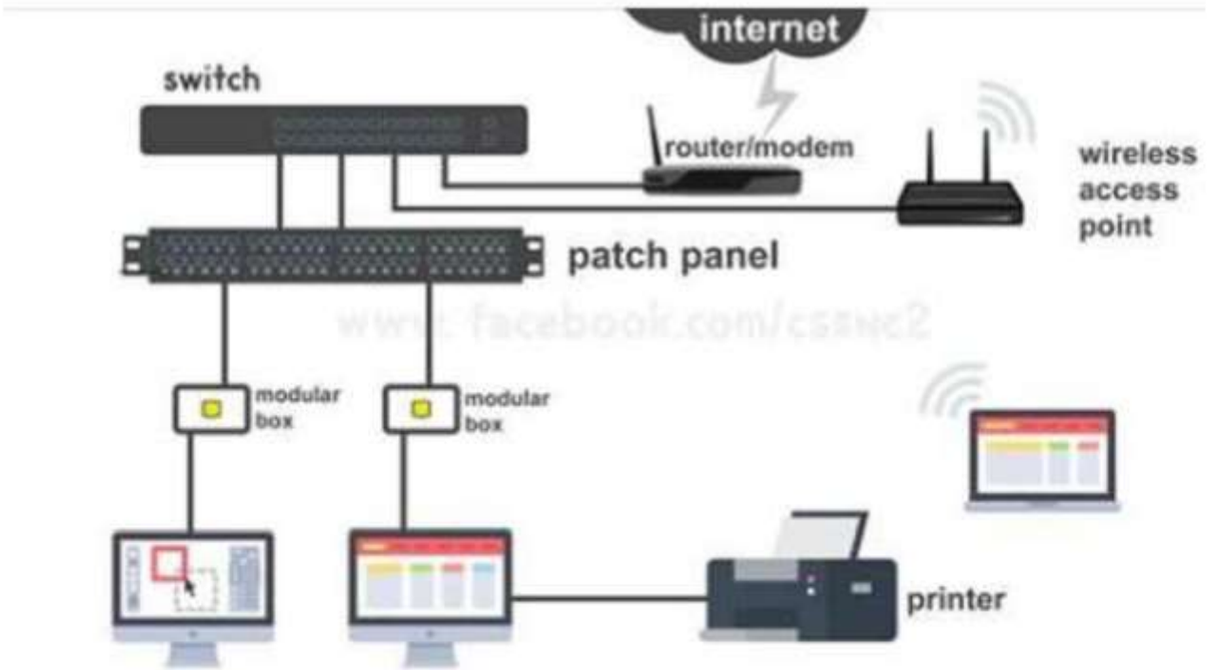
Prepared by:	Checked:		Noted & Approved:	Parent's Signature:
JERICO D. CASTILLO Teacher II	**ROI M. FRANCISCO** Teacher II/ ICT Coordinator	**GERALDINE M. TABING, Ed.D.** Master Teacher II	**ADORANDO R. DARVIN** Principal II	Signature Over Printed Name

Summative Test

III. Complete the table

Pin Number	Color
1	White Orange
2	Orange
3	White Green
4	Blue
5	White Blue
6	Green
7	White Brown
8	Brown

IV. Diagram



V. Identification:

1. Philips Screwdriver
2. Answers may vary. Normally there are two screws for each panel on a mid-tower case.
3. SATA/ IDE (answers may vary)
4. Answers may vary. Normally, crosshead screws secure hard drives in place.
5. Answers may vary. Most cases allow for up to four screws per hard drive.
6. Answers may vary. Most hard drive manufacturers use a flush, crosshead screw.
7. Master, Slave, or Cable Select (CS)
8. Answers may vary.
9. Master, Slave, or Cable Select (CS) drive.
10. Answers may vary.
11. Answers may vary.
12. Answers may vary.
13. – 15. Answers may vary:

16. Answers may vary.

17. Answers may vary.

18 – 20. Answers may vary.

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Republic of the Philippines
DEPARTMENT OF EDUCATION
Region IV-A CALABARZON
City Schools Division of Bacoor

SHS IN SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
SY 2019-2020

LEAST MASTERED COMPETENCIES
First Quarter (First Semester)
Computer Systems Servicing NCII

Legend:
96 - 100 **(M) Mastered**
86 - 95 **(CAM) Closely Approximating Maste**
66- 85 **(MTM) Moving Towards Mastery**
35 - 65 **(AM) Average Mastery**
15 - 34 **(LM) Low Mastery**
5 - 14. **(VLM) Very Low Mastery**
0 - 4 **(ANM) Absolutely No Mastery**

No. of Items: 70

Item No.	ICT 12B						Overall		Mastery
No. of Students	40						40		
x	f	%	f	%	f	%	f	%	
1	16	40%					16	40%	AM
2	9	23%					9	23%	LM
3	26	65%					26	65%	AM
4	40	100%					40	100%	M
5	23	58%					23	58%	AM
6	27	68%					27	68%	MTM
7	39	98%					39	98%	M
8	38	95%					38	95%	CAM
9	28	70%					28	70%	MTM
10	23	58%					23	58%	AM
11	28	70%					28	70%	MTM
12	21	53%					21	53%	AM
13	14	35%					14	35%	AM
14	10	25%					10	25%	LM
15	19	48%					19	48%	AM
16	22	55%					22	55%	AM
17	21	53%					21	53%	AM
18	38	95%					38	95%	CAM
19	15	38%					15	38%	AM
20	25	63%					25	63%	AM
21	20	50%					20	50%	AM
22	20	50%					20	50%	AM
23	19	48%					19	48%	AM
24	9	23%					9	23%	LM
25	25	63%					25	63%	AM
26	14	35%					14	35%	AM
27	19	48%					19	48%	AM
28	17	43%					17	43%	AM
29	3	8%					3	8%	VLM
30	10	25%					10	25%	LM
31	13	33%					13	33%	LM
32	19	48%					19	48%	AM
33	20	50%					20	50%	AM
34	15	38%					15	38%	AM
35	25	63%					25	63%	AM
36	11	28%					11	28%	LM
37	23	58%					23	58%	AM
38	31	78%					31	78%	MTM
39	14	35%					14	35%	AM
40	14	35%					14	35%	AM
41	8	20%					8	20%	LM
42	27	68%					27	68%	MTM
43	23	58%					23	58%	AM
44	23	58%					23	58%	AM
45	32	80%					32	80%	MTM
46	25	63%					25	63%	AM
47	28	70%					28	70%	MTM
48	39	98%					39	98%	M
49	20	50%					20	50%	AM
50	16	40%					16	40%	AM
51	17	43%					17	43%	AM
52	26	65%					26	65%	AM
53	26	65%					26	65%	AM
54	31	78%					31	78%	MTM
55	26	65%					26	65%	AM
56	36	90%					36	90%	CAM
57	27	68%					27	68%	MTM
58	31	78%					31	78%	MTM
59	26	65%					26	65%	AM
60	18	45%					18	45%	AM
61	10	25%					10	25%	LM
62	5	13%					5	13%	VLM
63	6	15%					6	15%	LM
64	32	80%					32	80%	MTM
65	22	55%					22	55%	AM
66	16	40%					16	40%	AM
67	35	88%					35	88%	CAM
68	26	65%					26	65%	AM
69	12	30%					12	30%	LM
70									ANM
71									ANM
72									ANM
73									ANM
74									ANM
75									ANM
MPS	**53.20%**						**53.20%**		**AM**
Section	**ICT 12B**		**0**		**0**		**Overall**		

Prepared by:

JERICO L. CASTILLO
Teacher I

Noted by:

ADORANDO R. DARVIN
Principal II

Least Mastered Competencies

Republic of the Philippines
Department of Education
Region IV-A (CALABARZON)
CITY SCHOOLS DIVISION OF BACOOR
SHS in SAN NICHOLAS III, BACOOR CITY
San Nicolas III, Bacoor City, Cavite
Tel No. (046) 236 3171 / Cell No. 0917-1264983

TABLE OF SPECIFICATION IN COMPUTER SYSTEMS SERVICING NC II (3)

Teacher: Jerico D. Castillo **Grade Level:** 12 **Quarter:** First
Content: Installing and Configuring Computer Systems (ICCS) & Set-Up Computer Networks (SUCN) **Learning Area:** Computer Systems Servicing NC II (3) **Date Submitted:** July 31, 2019

Content	Learning Competencies	Item Placement						No. of hours	Total no. of items	Percentage (No of items / total number of items in the te
		Remembering	Understanding	Applying	Analyzing	Evaluating	Creating			
Lesson 8: Installing and Configuring Computer Systems (ICCS)										
• Types and parts of computers • Computer Operating Systems • Windows/ MAC OS X/ Linux • Peripheral devices • Computer systems design • Computer assembly procedures • Power ON self-test and basic-input-output-system (BIOS) configuration procedures • CMOS • Motherboards • Multimedia storage devices	LO 1. Assemble computer hardware	1,7,9,10	2,3,4,8,36,37,38, 39,40	56,57,58,59,60, 61,62,63,64,65, 66,67,68,69,70, 71,72,73,74,75	5,6			16	35	47%
• Installers preparation and OS installation procedures • Application and devices/ drivers installation procedures • Desktop PC interface/ hook up procedures	LO 2. Prepare installer	12,13,14,15,20						8	5	7%

Prepared by:	Checked:		Noted & Approved:
JERICO D. CASTILLO Teacher II	ROI M. FRANCISCO Teacher II/ ICT Coordinator	GERALDINE M-TABING, Ed.D. Master Teacher II	A. DORANDO R. DARVIN Principal II

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• Application packages and use of application programs • Bootable devices • Software installers										
• Installation of Operating System • Install and configure of peripherals devices • Install/ update operating system • Checking of work	LO 3. Install operating system and drivers for peripherals/ devices	24	11,21,22,23,25					8	6	8%
• Installation of applications software with different variations • Software updates • Virtualization software • Disk Management software • Antivirus/ diagnostic software • Device drivers • Drivers/ software update procedures	LO 4. Install application software	17,18,19,26	16					8	5	7%
LESSON 9: SET-UP COMPUTER NETWORKS (SUCN)										
• Computer network concepts • Network cable installation • Copper cable splicing and cable testing • Fiber optic cables splicing and installation requirements • Philippine Electrical Code relevant to data connection • OHS standards and 5S principles • Practicing 3Rs (reduce	LO 1. Install network cables	41,42,43,44,45						8	5	7%

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JERICO D. CASTILLO Teacher II	ROI M. FRANCISCO Teacher II/ ICT Coordinator	GERALDINE M-TABING, Ed.D. Master Teacher II	A. DORANDO R. DARVIN Principal II

reuse, recycle/ recover) • 3Rs environmental policies • Managing waste from electrical and electronic equipment (WEEE)										
• Network design • Addressing • Subnetting • Topology • Router/ Wi-Fi/ Wireless access point/ Repeater configuration • Network Interface Card (NIC) settings • Network cables • Cable raceways / ducts • Network connectivity checking procedures and techniques • IPV4 and IPV6 • IP addressing • Subnetting/ Subnet Mask • Contingency procedures in response to unplanned events and conditions • Remote desktop	LO 2. Set network configuration						46,47,48,49,50, 51,52,53,54,55	8	10	13%
• Wireless settings configuration • Gateways • Security/ firewall/ advanced settings configuration • Cloud computing • Network connectivity testing • Device systems settings configuration • Local area network (LAN) port configuration	LO 3. Set Router/ Wi-Fi/ Wireless Access Point/ Repeater configuration	27,32,33	28,29,30,31,34,35					16	9	12%

Prepared by:	Checked:		Noted & Approved:
JERICO D. CASTILLO Teacher II	ROI M. FRANCISCO Teacher II/ ICT Coordinator	GERALDINE M. TABING, Ed.D. Master Teacher II	A. DOMANDO R. DARVIN Principal II

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• Wide area network (WAN) port configuration • Configuration procedure										
TOTAL		**22**	**21**	**20**	**2**	**0**	**10**			**100%**

TYPES of TEST	1-35	**MULTIPLE CHOICE (MC)**
	36 - 40	**ENUMERATION (E)**
	41-45	**COMPLETE THE TABLE (CT)**
	46-55	**DIAGRAM (D)**
	56 – 75	**IDENTIFICATION (I)**

Prepared by: JERICO D. CASTILLO, Teacher II | Checked: ROI M. FRANCISCO, Teacher II/ ICT Coordinator | GERALDINE M. TABING, Ed.D., Master Teacher II | Noted & Approved: A. DOMANDO R. DARVIN, Principal II