



COMPUTER SYSTEM SERVICING G10
QUARTER 1-WEEK 1: TYPES OF COMPUTERS

Name of Learner: _____
Grade & Section: _____

Date: _____
Teacher: _____

MOST ESSENTIAL LEARNING COMPETENCY (MELC):

- Plan unit assembly to ensure OHS policies and procedures are followed in accordance with systems requirements (TLE_IACSS912ICCS-Ia-e-28)

Objectives:

- 1. Identify the different categories and functions of computers.
2. Learn the functionality of each type of computer.
3. Answer every question that incorporates the basic types of computers.



TEACH ME

Learning Task 1

The world of today is being conquered by technology. Everything we see and hear around us was caused by technology. We tend to use it in everyday living.

Activity 1

Direction: List down 5 things that you can see inside your house that you think is a computer and how these devices help you in your daily life.

5 devices considered as computer

How does it become helpful?

Activity 2

Direction: Read the article carefully then answer the following questions that follows.

Founder eyes bringing app to PH to enable parents track kids
By Ma. Cristina Arayata
https://www.pna.go.ph/articles/1097672
MANILA -- Parents cannot always be with their kids but would always want to see what they are doing, how they grow. Lionel Sinai-Sinelnikoff, who co-founded the Milky Chat app with his wife, eyes bringing this app in the Philippines soon. Basically, Milky Chat app works like a combination of Viber and Instagram, based on how Sinai-Sinelnikoff showed the app to the Philippine News Agency (PNA) recently.
The user can select who could have access to an account (e.g. spouse, teacher, nanny). Those who were granted access can share photos or videos of the child in real-time. The parent and those who were granted access could also "like" and comment on the posts.
"I'm loving the bond with our kids," he said, adding that they now have two children -- a three-year old and the other is turning six. "(Through this app), you can follow the life of a kid. Look at this, my child's teacher is giving me an update. So, I could see my daughter even if I am here in the Philippines," he said. (PNA)

Questions:

- 1. What are the benefits of this computer application as discussed in the article?
2. What is the role of technology in this article?
3. What do you think is the use of computers in the success of this application?
4. What do you think is the importance of computer/computer gadgets in this article?

Activity 3

Direction: Using the previous task, list down the advantages and disadvantages of computer or computer related gadgets that you notice.

Table with 2 columns: Advantages, Disadvantages

Learning Task 2

Definition of Computer

A computer is a machine that can be programmed to manipulate symbols. Its principal characteristics are:




- It responds to a specific set of instructions in a well-defined manner.
- It can execute a prerecorded list of instructions (a program).
- It can quickly store and retrieve large amounts of data.

Therefore, computers can perform complex and repetitive procedures quickly, precisely, and reliably.




General types of computers



Computers can be broadly classified based on:

A. Principles of Operation

No.	Type	Specifications	Example
1	Analog Computer	It is a computing device that works on a continuous range of values . The results given by the analog computers will only be approximate since they deal with quantities that vary continuously.	 https://retrothing.typepad.com/photos/uncategorized/2008/10/01/comdyna3.jpg
2	Digital Computer	It operates on digital data such as numbers. It uses a binary number system in which there are only two digits 0 and 1. Each one is called a bit. It can perform arithmetic operations like addition, subtraction, multiplication and division and logical operations.	 https://cdn.thinglink.me/api/image/877602005109964802/124/10/scaletowidth/0/0/1/1/false/true?wait=true
3	Hybrid Computers	It combines the desirable features of analog and digital computers. It is mostly used for automatic operations of complicated physical processes and machines. It has the speed of analog and the accuracy of a digital computer.	 https://www.bp.com/content/dam/bp/productsandservices/Explains/Explains%20Hybrid%20Computers/Explains-Hybrid-Computers-Full-Detail.png (470x348) (bp.blogspot.com)







B. Configuration



No.	Type	Specifications	Example
1	Microcomputer or PC (Personal Computer)	-It is a single user computer system having a moderately powerful microprocessor. -Used by business for word processing, accounting, desktop publishing and database management applications.	 https://clipground.com/images/computador-png-16.png
2	Server	It provides services to another computer program and its user, also known as the client. It is more powerful than normal computers. Server hardware also differs from desktop hardware in terms of its form factor.	 https://pngimg.com/uploads/server/server_PNG43.png
3	Mini-Computer	It is a multi-user computer system, capable of supporting hundreds (250) users simultaneously.	 https://image.slidesharecdn.com/ahmadsameertypesofcomputer-130527114134-phpapp02/95/ahmadsameer-types-of-computer-11-638.jpg?cb=1369654966

4	Main Frame	It is very large in size and is an expensive computer capable of supporting hundreds or even thousands of users simultaneously and can execute many programs concurrently and supports many simultaneous executions of programs.		https://www.techglads.com/wp-content/uploads/2015/05/mainframe-computer.jpg
5	Supercomputers	These are one of the fastest computers currently available and are very expensive and employed for specialized applications that require an immense amount of mathematical calculations (number crunching).		http://www.tutorialspoint.com/computer_fundamentals/images/supercomputer.jpg

Types of Microcomputers

Actual personal computers can be generally classified by size and chassis / case.

No	Type	Description/ Specification	Example
1	Desktop	The term refers to a computer in which the power supply, motherboard, and mass storage devices are stacked on top of each other in a cabinet.	 https://s3.amazonaws.com/images.ecwid.com/images/4276170/1699843471.jpg
2	Notebook computer/Laptop computer	An extremely lightweight personal computer. It uses a variety of techniques, known as flat-panel technologies, to produce a lightweight and non-bulky display screen.	 https://i.pinimg.com/originals/59/c8/6c/59c86c3ff9fd7d5e88c13fac124649e9.jpg
3	Subnotebook computer	A portable computer that is slightly lighter and smaller than a full-sized notebook computer.	 http://www.itogo.co.uk/wp-content/uploads/2019/01/laptop-sales.jpg
4	Hand-held computer	A portable computer that is small enough to be held in one's hand.	 http://2.imimg.com/data2/HN/UI/MY-2238745/handheld-pc-500x500.jpg
5	PDA (Personal Digital Assistant)	Short for personal digital assistant, a handheld device that combines computing, telephone/fax, and networking features. A typical PDA can function as a cellular phone, fax sender, and personal organizer.	 https://static3.depositphotos.com/1000733/148/950/depositphotos_1489729-stock-photo-pda-computer.jpg
6	Tablet computer	Tablet computers are handheld portable devices along with a touch screen interface in which users can perform both activities (Input/Output) on its LCD screen and can run several applications such as word processing and others.	 https://www.biztechafrica.com/media/images/stories/tablet.JPG
7	Smartphone	It is a touch screen mobile phone that is capable of performing various advanced functions similar to computers such as installed OS (operating system), download applications, access the internet and more.	 https://pngimg.com/uploads/smartphone/smartphone_PNG8519.png
8	Game console	It is a special kind of computer primarily used for playing video games. A device that outputs a video signal or visual image to display a video game that one or more people can play	 https://static2.cbrimages.com/wordpress/wp-content/uploads/2020/10/Best-Gaming-Console-e1603247680382.jpg

9	Modern TV's	Modern televisions (Internet TVs) are now having their own applications and interactive features. It allows users to stream music, movies online or browse the internet and view photos.		https://mubaraktech.co.ke/wp-content/uploads/2020/10/Sony-50-Inch-LED-Full-HD-Smart-TV-Black-KDL-50W660F-a.jpg
10	Wearable computers	It is any small technology device capable of storing and processing data that will be worn on the body.		https://vitalbrands.pk/wp-content/uploads/2017/04/smart-watch-1.jpg



LEARN MORE

Learning Task 3

Activity 4. Types of Microcomputers

Direction: Read each situation below and identify what type of personal computer is described in the statement. You may choose your answer in the word bank below.

Tablet computer	Subnotebook	Personal Digital Assistant
Wearable computer	Handheld computer	Game console Smartphone
Desktop Computer	Notebook/Laptop	Modern TV

_____ 1. Leia is looking for a very _____ lightweight microcomputer whose computing power is nearly equivalent to a desktop computer for her online class this school year.

_____ 2. Jose is planning to buy a new gadget for his living room wherein he can watch online videos and even stream his favorite music using a television.

_____ 3. Genna is browsing the internet to look for a microcomputer that is slightly lighter and smaller than a full-sized notebook computer which she can carry anywhere she goes.

_____ 4. Marie got a package last week from her relatives in the States. It includes a device given by her uncle wherein she can use it to play video games. This device outputs a video signal or visual image to display a video game that one or more people can play.

_____ 5. Samsung releases a new device called Samsung galaxy note 20 where it is capable to perform various advanced functions like computers such as installed OS (operating system), download applications, access the internet and more.

Learning Task 4

Facing the setup of education in the new normal, you as a student need to deal with the changes that happen specifically the rise of the use of computers and gadgets in learning. As a student what type of computer/personal computer you think will help you learn more in the new normal setting. Draw your answer and state why you think it will be helpful for you. Use separate paper if necessary. For ODL students, you may use photo drawing and editing applications.



EVALUATE NOW

SUMMATIVE ASSESSMENT:

Direction: Read the following statements and choose the letter that best describes each sentence.

- It refers to the type of computer which is a single user computer system having a moderately powerful microprocessor which can be utilized for business and home-based usage.
 - main frame
 - mini-computer
 - personal computer
 - workstation

2. It refers to the type of computer which is a single computer system having a moderately powerful microprocessor which can be utilized for business and home-based usage.
 - a. main frame
 - b. mini-computer
 - c. personal computer
 - d. workstation
3. It is a multi-user computer system, capable of supporting hundreds (250) users simultaneously.
 - a. main frame
 - b. mini-computer
 - c. personal computer
 - d. workstation
4. It refers to a type of computer wherein it is very large in size and is an expensive computer capable of supporting hundreds or even thousands of users simultaneously and can operate many programs concurrently.
 - a. main frame
 - b. mini-computer
 - c. personal computer
 - d. supercomputers
5. It is the fastest and most expensive type of computer wherein it is employed for specialized applications that require immense amount of mathematical calculations
 - a. main frame
 - b. mini-computer
 - c. personal computer
 - d. supercomputers
6. It is an extremely lightweight personal computer which uses a variety of techniques, known as flat-panel technologies, to produce a lightweight and non-bulky display screen.
 - a. desktop model
 - b. hand-held computer
 - c. notebook computer
 - d. personal digital assistant
7. It is a portable computer that is small enough to be held in one's hand.
 - a. desktop model
 - b. hand-held computer
 - c. notebook computer
 - d. palm top
8. It is a device that combines computing, telephone/fax, and networking features which can function as a cellular phone, fax sender, and personal organizer.
 - a. desktop model
 - b. hand-held computer
 - c. personal digital assistant
 - d. notebook computer
9. It refers to a computer in which the power supply, motherboard, and mass storage devices are stacked on top of each other in a cabinet
 - a. desktop model
 - b. hand-held computer
 - c. subnotebook computer
 - d. notebook computer
10. It is a portable computer that is slightly lighter and smaller than a full-sized notebook computer.
 - a. desktop model
 - b. hand-held computer
 - c. subnotebook computer
 - d. notebook computer

B. PERFORMANCE TASK

Direction: Research and study the following words. Give the classification of the following machines as to what type of personal computer they belong. You may look at the books available at home or through your cellular phones and other gadgets as a guide.

Machine	Type of Personal computer
1. Nintendo Switch	
2. Apple watch series 5	
3. Sharp Smart TV	
4. Dell Inspiron 3471	
5. NEC MobilePro 900c	
6. <u>HP STREAM LAPTOP PC 11-Y010NR</u>	
7. Apple Ipad mini	
8. Lenovo ThinkPad X1	
9. Palms Palm Pilot	
10. Oppo F11 Pro	

References:

https://www.cs.cmu.edu/~fgandon/lecture/uk1999/computers_types/
https://www.tutorialspoint.com/computer_fundamentals/c_omputer_types.htm

