

GOVERNMENT PROPERTY
NOT FOR SALE

COMPUTER SYSTEMS SERVICING GRADE 11

Module 8

“Setting-up Modem”

Computer Systems Servicing NCII – Grade 11

Quarter 4 – Module 8: Setting-up Modem

First Edition, 2020

Republic Act 8293, section 176 states that: No copyright shall subsist in any work of the Government **3Rs Environmental Policies** of the Philippines. However, prior approval of the government agency or office wherein the work is created shall be necessary for exploitation of such work for profit. Such agency or office may, among other things, impose as a condition the payment of royalties.

Borrowed materials (i.e., songs, stories, poems, pictures, photos, brand names, trademarks, etc.) included in this module are owned by their respective copyright holders. Every effort has been exerted to locate and seek permission to use these materials from their respective copyright owners. The publisher and authors do not represent nor claim ownership over them.

Published by the Department of Education Division of Pasig City

Development Team of the Module

Writer	: Felix C. Vergara, Jr.
Editors	:
Reviewers	: Ronald S. Bobis
Illustrator	:
Layout Artist	:
Management Team	: Ma. Evalou Concepcion A. Agustin OIC-Schools Division Superintendent Carolina T. Rivera, CESE Assistant Schools Division Superintendent Victor M. Javeña EdD Chief, School Governance and Operations Division Manuel A. Laguerta Chief, Curriculum Implementation Division

Education Program Supervisors

Librada L. Agon EdD (EPP/TLE/TVL/TVE)
Liza A. Alvarez (Science/STEM/SSP)
Bernard R. Balitao (AP/HUMSS)
Joselito E. Calios (English/SPFL/GAS)
Norlyn D. Conde EdD (MAPEH/SPA/SPS/HOPE/A&D/Sports)
Wilma Q. Del Rosario (LRMS/ADM)
Ma. Teresita E. Herrera EdD (Filipino/GAS/Piling Larang)
Perlita M. Ignacio PhD (EsP)
Dulce O. Santos PhD (Kindergarten/MTB-MLE)
Teresita P. Tañulao EdD (Mathematics/ARM)

Printed in the Philippines by Department of Education – Schools Division of Pasig City



COMPUTER SYSTEMS SERVICING NCII

11

Quarter 4

Self-Learning Module 8

Setting-up Modem



Introductory Message

For the facilitator:

Welcome to the **Computer Systems Servicing G11** module on 3Rs Environmental Policies. This module was collaboratively designed, developed and reviewed by educators from Schools Division Office of Pasig City headed by its Officer-In-Charge Schools Division Superintendent, Ma. Evalou Concepcion A. Agustin in partnership with the Local Government of Pasig through its mayor, Honorable Vico Sotto.

The writers utilized the standards set by the K to 12 Curriculum using the Most Essential Learning Competencies (MELC) while overcoming their personal, social, and economic constraints in schooling.

This learning material hopes to engage the learners into guided and independent learning activities at their own pace and time. Further, this also aims to help learners acquire the needed 21st century skills especially the 5 Cs namely: Communication, Collaboration, Creativity, Critical Thinking and Character while taking into consideration their needs and circumstances.

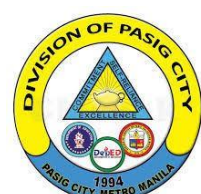
In addition to the material in the main text, you will also see this box in the body of the module:



Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Moreover, you are expected to encourage and assist the learners as they do the tasks included in the module.



For the learner:

Welcome to Computer Systems Servicing NCII. The hand is one of the most symbolized part of the human body. It is often used to depict skill, action and purpose. Through our hands we may learn, create and accomplish. Hence, the hand in this learning resource signifies that you as a learner is capable and empowered to successfully achieve the relevant competencies and skills at your own pace and time. Your academic success lies in your own hands!

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning material while being an active learner.

This module has the following parts and corresponding icons:



Expectation - These are what you will be able to know after completing the lessons in the module



Pre-test - This will measure your prior knowledge and the concepts to be mastered throughout the lesson.



Recap - This section will measure what learnings and skills that you understand from the previous lesson.



Lesson- This section will discuss the topic for this module.



Activities - This is a set of activities you will perform.



Wrap Up- This section summarizes the concepts and applications of the lessons.



Valuing-this part will check the integration of values in the learning competency.



Post-test - This will measure how much you have learned from the entire module. Ito po ang parts ng module





EXPECTATIONS

After completing this lesson, you should be able to:

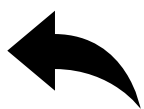
1. understand the functions of Modem;
2. identify the procedures in setting-up Modem;
3. appreciate the importance of setting-up Modem.



PRETEST

Directions: Read the following statement carefully. Write **T** if the statement is correct and **F** for the wrong statement.

1. A **modem** is a device that connects your home, usually through a coax cable connection, to your Internet service provider (ISP).
2. You need to Connect a laptop or tablet to one of the LAN ports on the router by connecting a network cable from your computer's network port to a LAN port on the router to configure the network.
3. Typing **ipconfig** in command prompt can determine the default gateway of the network.
4. The IP Address in the default gateway shall be used to configure the modem using any browser.
5. Don't forget to secure your router by changing the admin password from blank to a secure password you'll remember.



RECAP

Directions: Read the following statement carefully. Write **T** if the statement is CORRECT and **F** if the statement is WRONG. Write your answer on the space provided.

- _____ 1. A wireless network allows you to connect from devices across the area using cables.
- _____ 2. Routers can be placed close to windows, walls, or the microwave.
- _____ 3. It is important to unplug/power off your modem and detach the cable from your internet service provider before connecting it to the router.
- _____ 4. An internet browser can be used to configure the router.
- _____ 5. It is important to add/set up security for out wireless network.





LESSON

Setting-up Modem

A **modem** is a device that connects your home, usually through a coax cable connection, to your Internet service provider (ISP). This device takes signals from your ISP and translates them into signals your local devices can use, and vice versa.

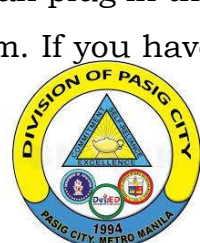
How to Set Up a Modem

Different ISPs offer a variety of modem versions. Both modems, on the other hand, have input connections for establishing an internet link and output connections for establishing a home network.

1. If you've decided to go for cable internet, you'll need to locate a cable port in your home to plug the modem into. You'll need to plug the modem into your home's phone port if you've bought DSL phone internet service. Locate the port in the room where you want to install the modem.



2. In the TV wall socket, plug one end of the coaxial (or coax) cable that came with your modem. Connect the other end to your cable modem's coax port on the back. You'll see a coax port where you can plug in the other end of the coax cable if you're using a cable modem. If you have



a DSL modem, the port will have a mark that says "Phone In" or "Phone."



3. After that, add the power connector to the modem. Plug the plug end of the cord into a wall socket.



4. When you plug in the modem and turn it on, it will go through a startup routine. The ports on the front of the modem will blink and then go solid one by one as it cycles through.

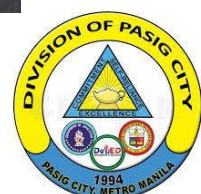
These ports are typically:

- Power light: Power is connected to the modem
- Online/Connected: The modem has established a connection with the ISP
- Internet: The modem has established a connection to the internet
- Network: A local area network (LAN) has been established





5. Once all lights on the front of the modem are solid or blinking rapidly, you're ready to start connecting devices to the modem. When using your router to connect to the internet, you have many choices.
 - Built-In Wireless: Some ISPs offer modems with a built-in wireless router, so you don't need a secondary router. You can connect your devices to the modem's wireless network.
 - Direct LAN: Use a network cable to connect a wired router to the modem and connect your devices to the router using network cables.
 - Wireless: Use a network cable to connect a wireless router to the modem and connect your devices to the router via Wi-Fi.
 - If you choose a wired network or wireless approach, purchase a router and connect it to the modem's WAN port using a network cable.

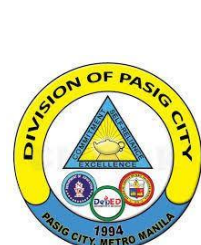
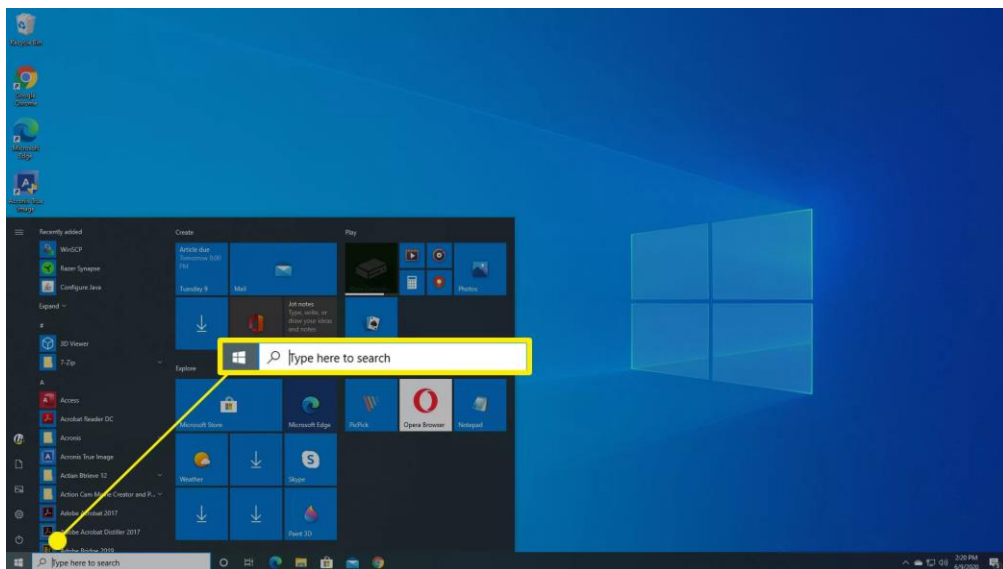


6. You're ready to start connecting all of your computers and other devices once you've linked the WAN port on your modem to the WAN port on your wired or wireless router.

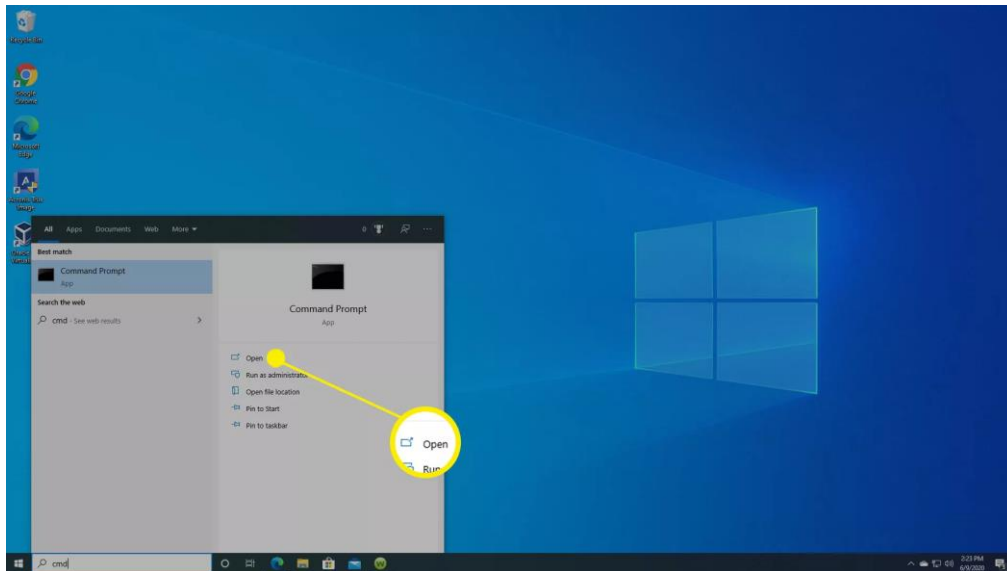
Connect to Your Devices

The method of connecting your devices to the network is usually the same if you've linked a wired or wireless router to your modem. In the wired case, you'll need to link your computer network port to one of the LAN network ports using LAN network cables. The method of connecting your devices to the network is usually the same if you've linked a wired or wireless router to your modem.

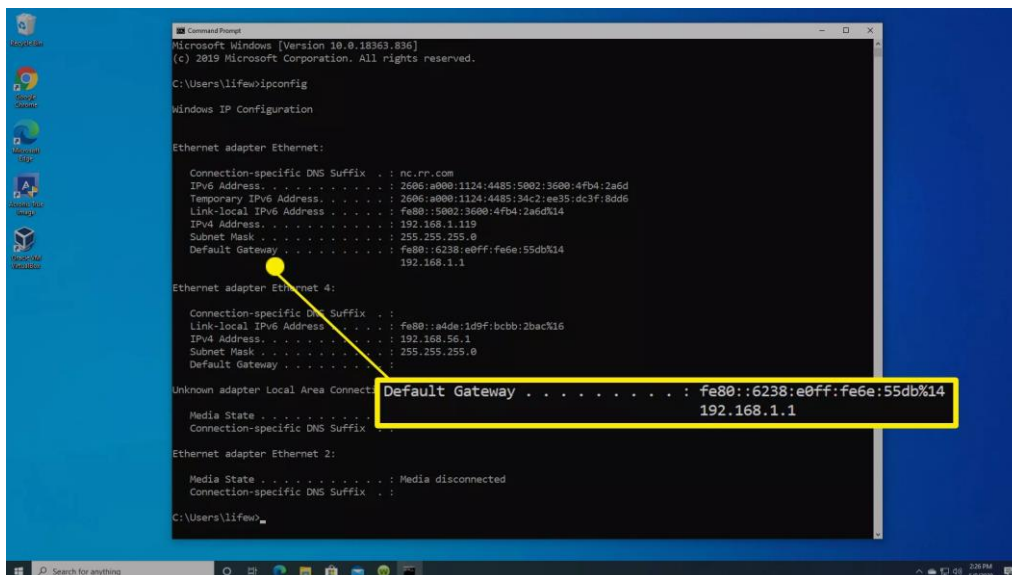
1. Connect a laptop or tablet to one of the LAN ports on the router by connecting a network cable from your computer's network port to a LAN port on the router.
2. Select the Start menu.



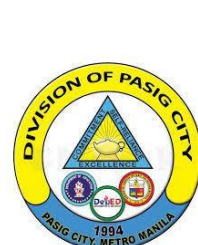
3. Enter *cmd*, and select Open under Command Prompt app.

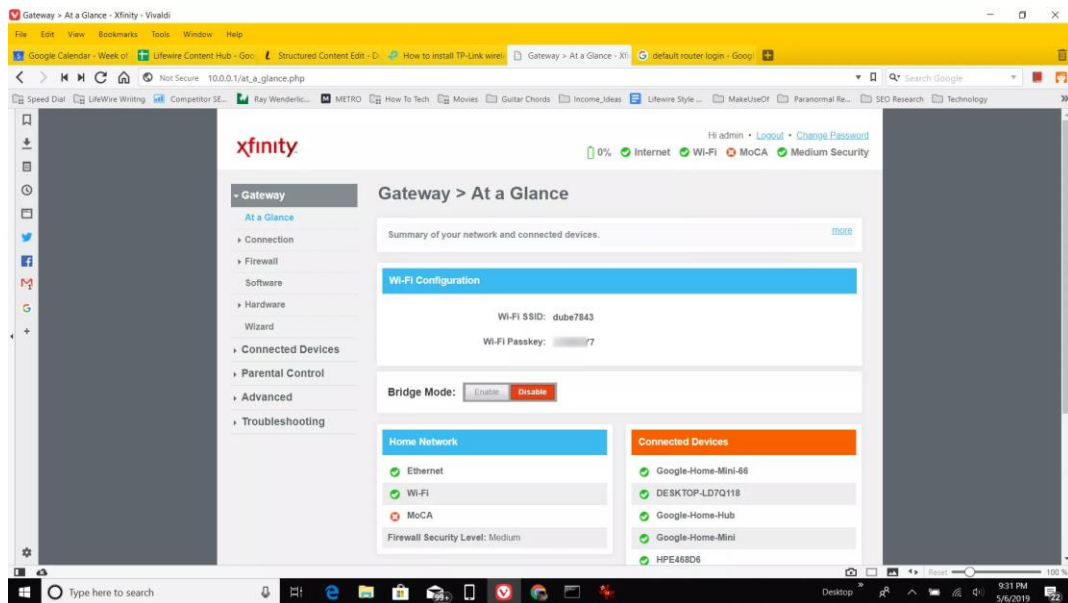


4. In the Command Prompt, enter **ipconfig** and press Enter.

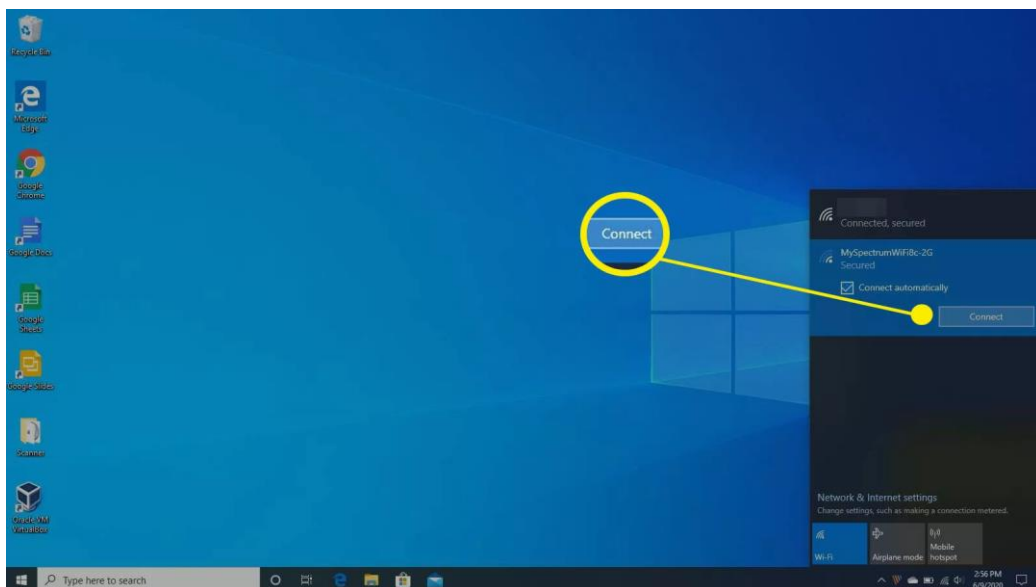


5. Open a web browser and type the IP address for the **Default Gateway** specified in the ipconfig results. The router's login window will appear. If you're logging into the router for the first time, the administration ID is normally **admin** and the password is blank. The Wi-Fi SSID and passkey should be visible in the main router window or under the Wi-Fi menu.

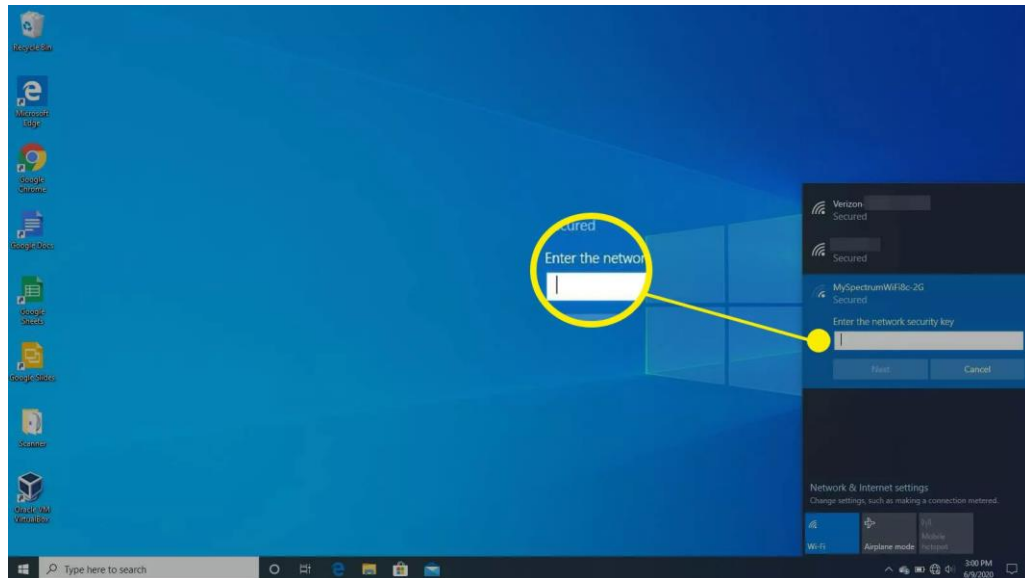




6. You will find the SSID from the list of available wireless networks by clicking the network icon in the taskbar on any device in your home. For that network, click the Connect button.

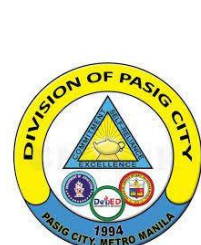
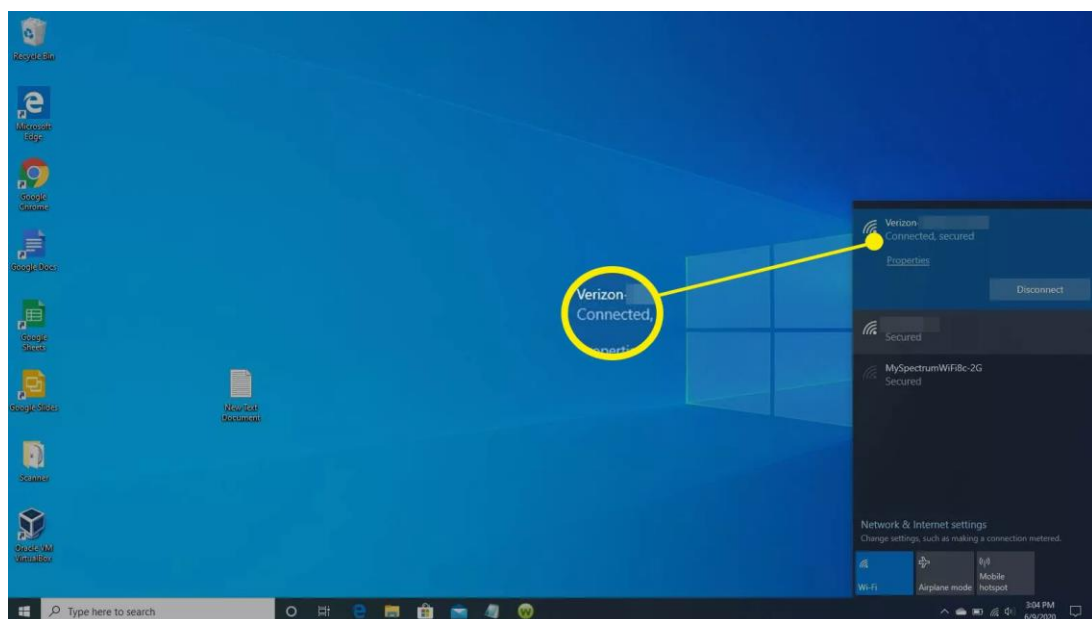


7. If you're connecting to a new home wireless network for the first time, you'll be prompted to enter the password security key that you copied from your router's Wi-Fi settings earlier. To proceed, choose Next.



8. Once the connection is established, you'll see the wireless status change to Connected.

REMEMBER: Don't forget to secure your router by changing the admin password from blank to a secure password you'll remember.

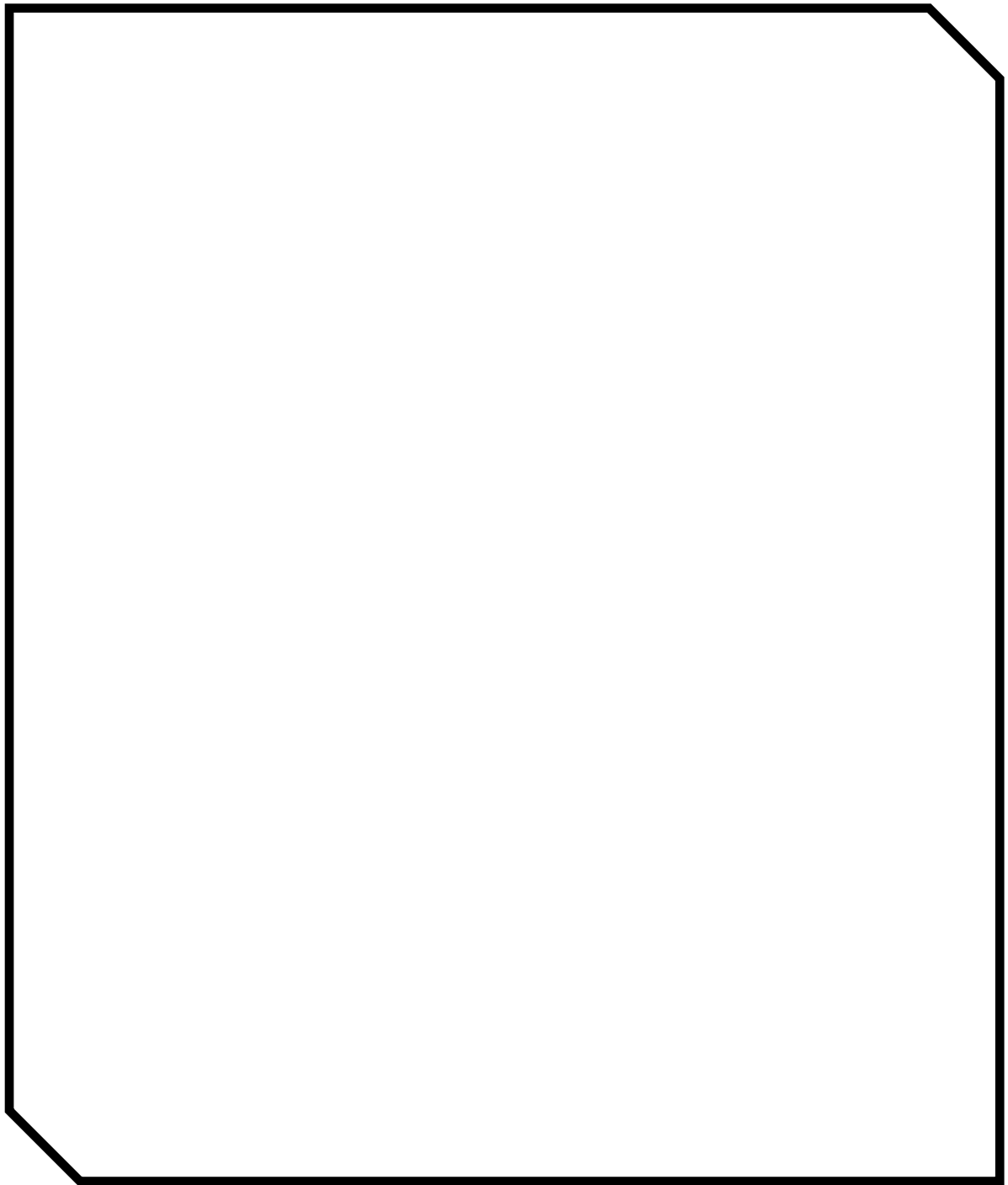




ACTIVITIES

Activity # 1: INFOGRAPHIC

Directions: Create an INFORGRAPHIC representing the procedures in setting-up Modem. INFOGRAPHIC is a combination of diagram and text to represent information.



WRAP-UP

DIRECTION: Complete the following sentence base on what you've learn.

A Modem is used to _____

_____.

VALUING

DIRECTION: Read the following question/s carefully. State your answer in two to three sentences each number on the space provided.

What do you think are the importance of learning setting-up Modem?

_____.

POST TEST

Directions: Read the following statement carefully. Write **T** if the statement is correct and **F** for the wrong statement.

1. A **modem** is a device that connects your home, usually through a coax cable connection, to your Internet service provider (ISP).
2. You need to Connect a laptop or tablet to one of the LAN ports on the router by connecting a network cable from your computer's network port to a LAN port on the router to configure the network.
3. Typing **ipconfig** in command prompt can determine the default gateway of the network.
4. The IP Address in the default gateway shall be used to configure the modem using any browser.
5. Don't forget to secure your router by changing the admin password from blank to a secure password you'll remember.





KEY TO CORRECTION

Posttest	Recap	Pretest
1. T	1. F	1. T
2. T	2. F	2. T
3. T	3. T	3. T
4. T	4. T	4. T
5. T	5. T	5. T

REFERENCES

Lifewire. "How to set up a Modem".

"<https://www.lifewire.com/how-to-set-up-a-modem-4686389>".

