# Objectives

* Record all the different network attached devices in your home or classroom.
* Investigate how each device connects to the network to send and receive information.
* Create a diagram showing the topology of your network.
* Label each device with its function within the network.

# Background / Scenario

The path that a message takes from its source to destination can be as simple as a single cable connecting one computer to another or as complex as a network that literally spans the globe. The network infrastructure contains three categories of hardware components:

* End devices
* Intermediary network devices
* Network media

# Instructions

Take a close look at the network you have at home or school. Record the network and end-user devices that are connected on the local network.

Sample

| Manufacturer | Device | Location | Connection | Media |
| --- | --- | --- | --- | --- |
| Apple | iPhone | Mobile | Wireless | WiFi & cell phone |
| Samsung | Galaxy Smart Phone | Mobile | Wireless | WiFi & cell phone |
| Cisco | Cable Modem | Home office | Wired | Cable TV coaxial cable and Ethernet cable. |
| Linksys | Wireless Router | Home office | Wired | Ethernet cable. |
| HP | Printer/Scanner | Home office | Wireless | WiFi |
| Apple | MacBook Air | Mikayla’s Room | Wireless | WiFi |
| Beats by Dre | Headphones | My Room | Wireless | Bluetooth |
| Microsoft | Xbox | My Room | Wired | Ethernet Cable |

Your Local Network

| Manufacturer | Device | Location | Connection | Media |
| --- | --- | --- | --- | --- |
| Samsung | TV | Parent room | Wireless | Wi-Fi |
| Lenovo | Laptop | My room | Wireless or Wired | Wi-Fi or Ethernet Cable |
| Lenovo | Tablet | My room | Wireless | Wi-Fi |
| Apple | phone | Home office | Wireless | Wi-Fi |
| Netgear | Router | Home office | Wireless | Ethernet Cable |
| Sony | PC | Home office | Wired | Ethernet Cable |
| Toshipa | telephone | Home office | Wired | Ethernet Cable |
| HP | Printer | Home office | Wired | Ethernet Cable |

## Reflection

* 1. Are there other electronic devices that are not connected to the local network to share information or resources? What would be the benefit of having these devices online?

1. Connecting these to your local network could offer several advantages. For instance, networked devices can be managed remotely, provide enhanced features through internet access, and interact with other devices for a more integrated experience. Sharing resources like subscriptions across devices could be more efficient, and connecting to peripherals like printers would become simpler.

2.Which type of connectivity is used most frequently in your local network, wired or wireless?

most of my devices are more mobile, such as tablets, smartphones, laptops, I probably use the wireless connection more often.

3.Draw a diagram of your local network. Label each device with a name and location.

A drawing of a computer network

Description automatically generated