**Networks and Network Data Transmission**

**Definitions:**

Wired Networks: A network that uses cables to connect devices and communicate

Wireless Networks - A network that makes use of Radio Frequency (RF) connections between nodes to communicate

Mobile Networks: A network that makes use of cellular connections from towers to communicate

LAN (Local Area Networks): A local area network (LAN) is a collection of devices connected together in one physical location, such as a building, office, or home

**Digital Systems – Wirless Transmission**

<https://lazyadmin.nl/home-network/home-network-diagram/> (helps understand the components of a digital system and has basic diagrams. Helped me get my head around it).

Wired Access Point: An Access Point (AP) is a device that can send and receive data. It receives an internet signal through an Ethernet cable connection to the router and converts it into a separate Wi-Fi network.

Cloud: A vast network of remote servers

Modem: is a device connecting your home to your internet service provider (ISP) through a physical connection. The modem translates the data from your ISP into a format that your home network devices can use.

Switch: A switch is a device in a computer network that connects other devices together. Multiple data cables are plugged into a switch to enable communication between different networked devices. It allows for the connection of more wired devices.

Wireless Router: A router is a device that provides Wi-Fi and is typically connected to a modem. It sends information from the internet to personal devices like computers, phones, and tablets. These internet-connected devices in your home make up your Local Area Network (LAN).

Wireless Bridge: The wireless bridge converts any wired network enabled device with available Ethernet port to latest wireless technology.

Connect the Wireless Transmission devices together in a LAN by drawing the network. – use the above website to help.

Symbols for drawing that will be used in the assessment are found on the PowerPoint (CISCO Icon Library).