Wireless and mobile networks summary

Recap/

Wireless networks

**Mobile phones use radio waves to transmit voice signals to antennas mounted on towers located in specific geographic areas**

When a call is made, the coice signal is relayed from one tower to another tower until it is delivered to its destination

Its also used to send MSG directly

**Most common cellular telephone network is called GSM**

The abbreviations 3G, 4G, 4G-LTE, 5G are used to describe enhanced cell phone network that are optimized for the fast transmission of data

Wi-fi **transmitters and receivers located within the smartphone enable the phone to connect to local networks and the internet**

Wifi networks are usually private owned or a hotspots

Bluetooth **is wireless technology that allows devbices to communicate over short distances**

NFC **is a wireless communication technology that enables data to be exchanged by devices that are in very close proximity to each other (few centimeters)**

Mobile device connectivity

**Almost all devices are able to connect to wifi these protective measures should be taken**:

Never send login or password info using unencrypted text

Use a VPN

Enable security on home networks

Use WPA2 or higher encryption for security

**2 most popular OS for phones are android and IOS**

**Mobile devices are programmed to use wifi network for the internet if one is available and able to connect to it. If not it uses the cellular data capability**

**Bluetooth technology provides a simple way for mobile devices to connect to each other and wireless accessories**

**Its wireless aurtomatic and uses very little power which helps coserve battery life**

It occurs when two bluetooth devices establish a connection to share resources