

Lab – Mobile Device Information

Introduction

In this activity, you will use the Internet, a technical journal, or a local store to gather information about an Android and an iOS device. You will document the specifications of each Android and iOS device onto this worksheet. Be prepared to discuss your decisions regarding the devices you select.

Recommended Equipment

- PC with Internet Connection

Instructions

Step 1: Select an Android and iOS device to research. Record the hardware specifications in the boxes below.

Specifications	Android Device	iOS Device
Model	Xiaomi 17 Pro Max	Iphone 17 Pro Max
Manufacturer	Xiaomi	Apple
Operating System	Android 16, HyperOS3	iOS 26
Available Memory	512GB – 1TB	256GB - 2TB
Camera	Selfie Cam: 50 MP, HDR, Panorama, 4k/60fps, Gyro-IES, 21mm (Wide) Main Cam: 50 MP, 23mm (wide), Color Spectrum Sensor, Leica Lens, HDR, Laser AF, Dual-LED dual-tone flash, max 4k/120fps, Gyro-EIS	Selfie Cam: 18 MP multi-aspect, 20mm (UltraWide), HDR, ProRes. Main Cam: 48 MP, 24mm (Wide), 3D sensor-shift OIS, 4x optical zoom, LiDAR Scanner, max 4k/120FPS

Specifications	Android Device	iOS Device
Wi-Fi Connectivity	Wi-Fi 802.11 a/b/g/n/ac/6e/7, dual-band, Wi-Fi Direct, 5G	Wi-Fi 802.11 a/b/g/n/ac/6e/7, tri-band, hotspot, LTE and 5G
Battery Information	Si/C Li-Ion 7500 mAh	Li-Ion 5088 mAh - eSIM only model
Screen Size and Resolution	Screen Size: 6.9 inches, 116.6 cm ² Resolution: 1200 x 2608 pixels, 19.5:9 ratio	Screen Size: 6.9 inches, 115.6 cm ² Resolution: 1320 x 2868 pixels, 19.5:9 ratio
Size and Weight	Dimension: 162.9 x 77.6 x 8 mm Weight: 219 g	Dimension: 163.4 x 78 x 8.8 mm Weight: 233 g

Step 2: Based on your research, which mobile device would you select? Be prepared to discuss your decisions regarding the mobile device you select.

According to my analysis, I would choose the Android Device, which is known as the Xiaomi 17 Pro Max 5G. I'm a type of a person, who is more into photography and videography focused type quality in terms of specifications in phones. Given that the Camera quality of the android device compared to the IOS Device, which is known as the Iphone 17 Pro Max, Is much more superior. The Android is more lightweight, fair comparison in terms of Wi-Fi Connectivity, Superior in Battery performance, and supports the latest OS. While The Iphone on the other hand, is quite heavy, the battery is less superior, consisting of 5088 mAh only while in android; supports 7500 mAh, and in terms of resolution, Iphone has more pixels compared to the android device. In terms of storage, the Iphone has a superior storage capacity compared to android where the max is only 1TB, and the IOS device capacity has a max of 2TB. Thus, I would choose the android since some of the features of the IOS are really not important to me given that I only need the necessary specification in terms of photography, videography, editing and capable of doing multi-task programs, which the android OS has, and a budget where it consist of high quality and high performance yet cheap, Which is why, the Xiaomi 17 Pro Max is what I chose.

Conclusion:

In conclusion, With the given analysis of the comparison between the android and IOS Devices, One differs from the other, yet even with the slight differences they have, one appeals to one in terms of brand. Some people may choose the IOS or the Iphone due to its well known reputation of having a high quality performance and high security management in their phones. But, As you can see, in the example above, the android device feels more worthy of buying in terms of their specification's comparison. One is cheaper than the other, but has a lesser reputation than the other, yet the performance and quality of the specifications feels more superior than the well known brand. Thus, it is important to check specifications and not just on brands or on reputation of one's device brand.