

WORLD MISSION HIGH SCHOOL
LEVEL 4 NIT
MODULE: SETUP WIRELESS NETWORK OUTDOOR
HOMEWORK

1. What is a WLAN standard, and why is it important for wireless communication?
2. How does a basic WLAN network differ from a wired network in terms of standards?
3. Can you name a few common WLAN standards, and what are their primary features?
4. How does the speed of data transfer vary between different WLAN standards?
5. What role does the frequency band play in determining WLAN standards?
6. How has the evolution of WLAN standards improved the overall performance of wireless networks?
7. Why is security a critical consideration in WLAN standards, and how has it evolved over time?
8. What is the significance of backward compatibility in the context of WLAN standards?
9. How do MIMO technologies contribute to the efficiency of WLAN standards?
10. Can you explain the concept of channels in WLAN standards and their impact on network performance?
11. How do WLAN standards address issues related to interference in wireless networks?
12. What are the key differences between 2.4 GHz and 5 GHz frequency bands in WLAN standards?
13. How do beamforming technologies enhance the coverage and reliability of WLAN standards?
14. What challenges do IoT devices pose to WLAN standards, and how are they addressed?
15. How does the transition from 802.11n to newer standards like 802.11ac impact wireless communication?
16. What are the main considerations when selecting a WLAN standard for home use?
17. How do regulatory bodies contribute to the standardization and global compatibility of WLAN standards?
18. What advancements are introduced in Wi-Fi 6E, and how do they differ from previous WLAN standards?
19. Can you explain how WLAN standards adapt to support low-latency applications like online gaming?
20. In what ways do emerging technologies influence the future development of WLAN standards?