IP Addresses and MAC Addresses

**Instructions**: Answer the following questions about IP addresses and MAC addresses.

1. What is the difference between an IP address and a MAC address?

2. What is the purpose of an IP address in a computer network?

3. What is the purpose of a MAC address in a computer network?

4. Give an example of an IP address in IPv4 format.

5. Give an example of an IP address in IPv6 format.

6. List three common protocols used in computer networks.

7. Explain the role of protocols in facilitating communication between devices on a network.

8. How can you retrieve the MAC address and assigned IP address on a Windows computer?

9. How can you retrieve the MAC address and assigned IP address on a Mac computer?

10. How can you retrieve the MAC address and assigned IP address on a Linux computer?

# Activities:

1. Group Discussion: In small groups, discuss and compare the differences between IP addresses and MAC addresses. Share your findings with the class.

2. Protocol Examples: In pairs, research and find examples of common protocols such as HTTP, DNS, and POP3. Create a poster or presentation to explain the purpose and function of each protocol.