

Kit's Network Connections

Learning objective: To identify and understand the basic components of a computer network, including servers, clients, and how they connect.

Kit the fox is setting up a computer network in the library! Follow the drawing prompt to map out how the devices talk to each other. Use the word bank to label your diagram accurately.

Draw: Draw a network diagram showing how devices connect. Start by drawing a central 'Server' (a large computer tower). Draw three 'Client' devices (laptops or tablets) around it. Place a 'Switch' in the middle and draw lines (cables) connecting the clients and the server to the switch. Finally, draw a 'Wireless Access Point' (a small box with radio waves) to show how mobile devices connect without wires. Use arrows to show the flow of 'Data' moving between the devices.



Label words: Server · Client · Switch · Data · Wireless Access Point · Router

Steps:

1. Step 1: Draw a large box in the center of your page to represent the 'Server'. Why is a server important in a network?
2. Step 2: Draw three tablets around the outside of the page. Label these as 'Clients'. What do these devices receive from the server?

3. Step 3: Draw lines connecting your devices to a central 'Switch'. What is the purpose of a switch in a network?
4. Step 4: Draw a small cloud symbol above your devices and label it 'Wireless Access Point'. How does this help the clients connect?
5. Step 5: Explain one reason why it is useful for computers to be connected in a network rather than working alone.