

## 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 centre 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.