

Kit's Network Puzzle: Connecting the Woodland

Learning objective: To understand the basic components of a computer network and how they connect to share information.

Kit the fox is building a network to help the forest animals share data. Use the words from the word bank to label the network diagram below and explain what each part does. Match the correct component to its role in the network.

Word bank: Server · Router · Client · Data packets · Switch

1. 1. Which component acts like a mail office, directing data to the right place in the network? (2 marks)

2. 2. If a computer sends a file, it is broken down into smaller pieces to travel. What are these small pieces called? (2 marks)

3. 3. The _____ is a powerful computer that stores files and information for all the other computers to use. (2 marks)

4. 4. Explain the difference between a 'client' and a 'server' in a network. (3 marks)

5. 5. Why do we need a network instead of using a USB stick to move files between computers in a school? (3 marks)

Draw: Draw a simple network diagram showing three 'Client' laptops connected to a central 'Switch'. Draw a line from the Switch to a 'Server' and label each part using the terms from your word bank.



Extension challenge: Imagine Kit wants to add a wireless printer to the network. Research or think about how the signal travels from the computer to the printer without a wire. Write two sentences explaining what 'Wi-Fi' might be.