

Kit's Clever Computing: The Great Network Quest

Learning objective: To understand the basic components of a computer network, how devices connect, and the role of the internet.

Help Kit the Fox solve these computing conundrums! Read each question carefully and select or write the best answer. Remember to think about how information travels across the world.

Answer Key: 1.C, 2.True, 3.Router, 4.B, 5.False, 6.A, 7.Data, 8.C, 9.True, 10.B. A network is a collection of computers connected to share resources. A router directs traffic, while the internet is a global network of networks.

Word bank: Server · Router · Network · Wireless · Internet · Data · Packet

1. 1. What is a computer network? A) A type of fishing net, B) A single computer, C) Two or more computers connected to share information*, D) A collection of books. (1 mark)

2. 2. True or False: The internet is a massive, global network that connects smaller networks together. (1 mark)

3. 3. Which piece of hardware acts like a 'traffic controller' for data, sending it to the right device in your home? (1 mark)

4. 4. How do devices often connect to a network without using cables? A) By shouting, B) Using wireless (Wi-Fi) signals*, C) By magic, D) Using batteries. (1 mark)

5. 5. True or False: You need a physical wire to connect to a network at all times. (1 mark)

6. 6. What is a 'server'? A) A powerful computer that provides services or files to other computers*, B) A waiter in a cafe, C) A broken computer, D) A computer mouse. (1 mark)

7. 7. What is the name for the 'bits' of information that travel across a network? (1 mark)

8. 8. Which of these is an example of a network? A) A pencil case, B) A piece of paper, C) A school computer lab*, D) A tree. (1 mark)

9. 9. True or False: Networks allow people to share printers and files easily. (1 mark)

10. 10. What does 'Wi-Fi' stand for? A) Wireless Finance, B) Wireless Fidelity*, C) Wired File, D) Wide Finger. (1 mark)

Draw: Draw a diagram of your dream network! Include a laptop, a tablet, and a printer. Use lines to show how they connect to a central router in the middle of the page.



Extension challenge: 1. Explain why a school might choose to use a network instead of keeping every file on just one single computer. 2. Compare and contrast a wired connection with a wireless connection—which one might be more reliable and why? 3. Justify your answer: Is the internet the same thing as the World Wide Web? 4. What might happen if a router stopped working in a busy office? 5. If you were designing a new network for your home, where would you place the router to ensure the best signal? 6. Imagine a world without networks; how would your daily life change?