



Networks & the Internet

These Gold questions require explaining how networks and the internet function with genuine technical reasoning.

Name: _____ Date: _____

Section A: Network Reasoning

1. Explain, in simple terms, how data is broken into pieces and sent across the internet to reach the right destination.

2. Why might a website hosted on a server far away load more slowly than one hosted nearby?

3. Explain the difference between the internet (the network of connections) and the World Wide Web (the websites on it).

4. Why do large organisations sometimes have their own private networks separate from the public internet?

5. Explain why a single broken cable somewhere in the world can sometimes affect internet speed for many countries.

Section B: Security Reasoning

1. Explain why "https" websites are generally safer for entering personal information than "http" ones.

2. Why might a company encourage employees to use a VPN (a more secure, private connection) when working remotely?

3. Explain how a weak password could allow someone to access an account that isn't theirs.

4. Why is it important for websites to keep users' personal data secure, and what could happen if they don't?

5. Explain why understanding how networks work helps you make safer choices online.

