



COMPUTING SYSTEMS:

COMMUNICATION AND COLLABORATION

RECAP

Describe a network as more than two computers.

Know what an input and output are.

CRUCIAL KNOWLEDGE

- **Computers** and their users are not always in the same place as one another. With billions of computers around the world, computers need to send the information to the correct place. To do this, computers **use** special addresses called **IP addresses**. They may look like this:
From: 216. 58. 1. 214
- Protocols are an agreed way of doing something. When we communicate, we use an agreed set of protocols (greeting, speaking, listening, etc.).
- In computing, agreed protocols are the way that computers communicate with one another.
- The **digital information** they send **is called a 'packet.'**
- Media, files and **information can be shared on the internet** either privately via email/cloud space or publicly on websites.
- Identify that **there are a variety of ways to communicate over the internet.**
- Communication is when we share information with one another. We can communicate in lots of different ways on the internet, e.g. messaging services, emails, social media, video calling, blogging/vlogging and gaming platforms.

EXTENDED KNOWLEDGE

The World Wide Web was invented by Tim Berners-Lee in 1989

KEY VOCABULARY

IP Address	A unique string of characters that identifies each computer using the internet. Data can be sent from one computer to another using these.
Protocol	An agreed way of doing something.
Packet	A packet is collection of data that can be used by computers which need to communicate with each other, usually as part of a network

Communication	Sending or receiving information.
System	hardware and software that can have data input to it, which it then processes and outputs
Network	Two or more computers joined together
Collaboration	The action of working with someone to produce something.