



Year 5 Systems and Searching

Key vocabulary

System	A set of things working together as part of a whole.
Input	Something that sends a message to the device.
Output	Something that is sent out by the device.
Process	The way the device acts on the message.
Protocol	A set of rules or procedures for transmitting data between electronic devices.
IP Address	A unique identity number assigned to every device connected to the internet.
Explore	Travel through or learn new things.
Collaboration	Working together to create something.

Transferring Information

Protocols and Packets	IP Address
<ul style="list-style-type: none"> - 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 sent is called a 'packet'. 	<ul style="list-style-type: none"> - Computings and their users are not always in the same place as one another. <p>With billions of computers around the world. Computers need to send information to the correct place.</p> <p>To do this, computers use a special address called an IP address. They may look like this:</p> <p>From: 216. 58. 1. 214 To: 216. 64. 1. 20</p>



Working Together.

- Collaborating is another word for working together on something, to reach a shared goal.
- The internet can be used to help people collaborate online, even when they are far apart.
- Chat functions can be used to keep each other updated with new information.
- Shared "cloud" spaces and online drives can allow one or more people to share documents.



Systems

Washing Machine

Input: Dials and buttons.

Process: The computer insides follows a programme.

Output: The clothes are washed and the display shows the remaining time.

Smart Locker

Input: The customer scans a barcode.

Process: The code is recognised by the system.

Output: The correct locker is opened.