

## Key Vocabulary

|                   |                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------|
| <b>signal</b>     | An electrical or electromagnetic current that is used for carrying data from one device or network to another. |
| <b>router</b>     | A router receives and sends data on computer networks.                                                         |
| <b>IP address</b> | A unique address that identifies a device on the internet or a local network.                                  |
| <b>packets</b>    | A packet is a collection of data that can be used by computers.                                                |
| <b>system</b>     | A general term for a computer and all of its dependencies.                                                     |

## Key Facts

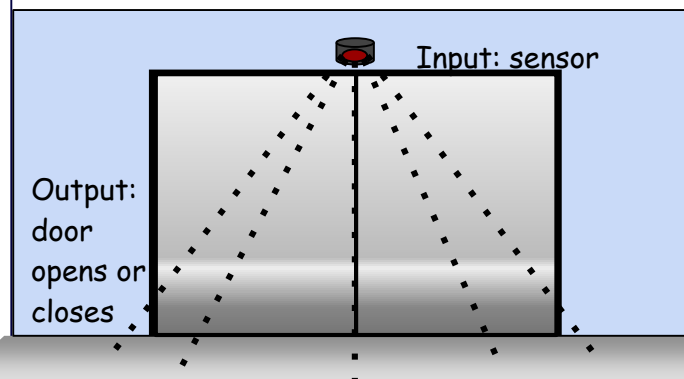
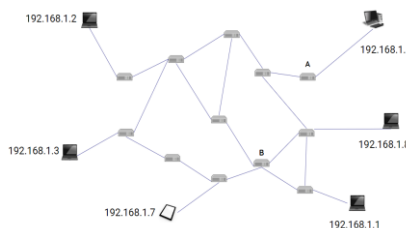
- In 2020 there were approximately 8 billion people living on the planet, and over 23 billion devices connected to the Internet - that's an average of 3 devices per person.
- There are over 5 billion searches through Google every day.
- The internet was invented over 40 years ago and wireless internet for consumers was created years in 1997.

## Key Questions

- How is information shared online?
- How is information stored?
- What is the difference between Wi-Fi and ethernet?
- How did people communicate before the internet?

## Links to other Learning

- Year 1 - Computing systems and networks  
*Technology around us*
- Year 2 - Computing systems and networks  
*IT around us*
- Year 3 - Computing systems and networks  
*Connecting computers*
- Year 4 - Computing systems and networks  
*The Internet*
- Year 6 - Computing systems and networks  
*Communication*
- PSHE - Online Safety



## Famous Computer Scientists

### Grace Hopper



Grace Hopper was an American computer scientist who created a manual for the foundations of computing machines.