**Activity – mesh network**

This is a whole class activity. Each person is a node on the mesh network. You could choose devices such as:

* movement sensor in various rooms
* lights in various rooms
* television
* fridge
* front door lock
* CCTV cameras
* burglar alarm siren
* smoke detector
* smoke alarm

Fill in the table below so you know each person’s address. Add more rows if you need to.

|  |  |
| --- | --- |
| **Type of Device** | **Address** |
| Movement sensor in lounge | M1 |
| Movement sensor in kitchen | M2 |
| Movement sensor in hallway | M3 |
| Movement sensor on drive | M4 |
| Lights in lounge | L1 |
| Lights in kitchen | L2 |
| Lights in hallway | L3 |
| Flood light at front of house | L4 |
| Television in lounge | T1 |
| Television in kitchen | T2 |
| Fridge | F1 |
| Front door lock | O1 |
| Camera at front of house | C1 |
| Camera at rear of house | C2 |
| Burglar alarm siren | S1 |
| Smoke detector in hallway | K1 |
| Heat detector in kitchen | K2 |
| Smoke alarm in hallway | S2 |
| Smoke alarm in kitchen | S3 |
| Smoke alarm upstairs | S4 |

Decide which devices will be connected to which using a diagram, eg:

Each device can send a message to any other device, but it can only travel through connected nodes.

How effectively were messages delivered?

How busy were each of the nodes?

*Use this sheet to write your messages. Fold it in such a way that only the address can be seen by the switch. Remember if you are a printer, you only have a limited set of messages.*

**Message**

**Address**