Different IOT devices / Platforms

Raspberry Pi

|  |  |
| --- | --- |
| Information Sources | * https://www.raspberrypi.org/ |
| Pros | * Full Linux operating system * Relatively cheap (~£30) * One of the community standards * Can write software in a variety of different languages * Flash storage so can be as large as you need it. |
| Cons | * Some models don’t have wireless networking capabilities which could be an issue. |

Arduino

|  |  |
| --- | --- |
| Information Sources | * https://www.arduino.cc/ |
| Pros | * C programming language, simple and with lots of examples online * Wide range of models to fit any use case |
| Cons | * Limited programming languages * Limited models with networking capabilities * Might not be enough storage space for needs. |

BeagleBoard

|  |  |
| --- | --- |
| Information Sources | * http://beagleboard.org/ |
| Pros | * Variety of boards to use * Full Linux operating system * Decent Price |
| Cons |  |

Microbit

|  |  |
| --- | --- |
| Information Sources | * https://microbit.org/ |
| Pros | * Intended for use in secondary school lessons, therefore is easy to program and use. |
| Cons | * Not many expansion boards * No networking interface |

MeadowBoard

|  |  |
| --- | --- |
| Information Sources | * https://www.wildernesslabs.co/developers |
| Pros | * .NET standard runtime installed. |
| Cons | * Very expensive |

ASUS TinkerBoard

|  |  |
| --- | --- |
| Information Sources | * https://www.asus.com/uk/Single-Board-Computer/Tinker-Board-S/ |
| Pros | * Full Linux operating system support |
| Cons | * Not available for purchase in the UK market |