Data and Sustainability Challenge

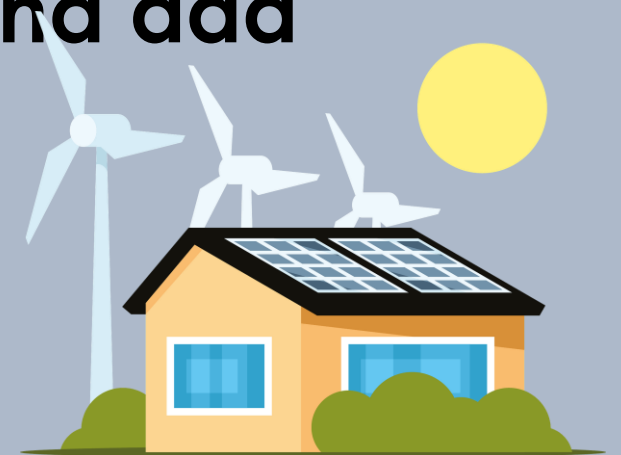moray **Digital** team
1earning

Design and build a smart sustainable home.

DEADLINE TBC

Challenge Instructions

1. Choose Sustainable Features for your house
2. Create a plan of your house including the sustainable features.
3. Create a program(s) for the micro:bit to incorporate into your prototype house.
4. Build your prototype out of upcycled materials
5. Film/Photograph your finished house and add these to the submission template.

Micro:bit Programs (to use/adapt)

Lighting
- **Night Light**
- **Disco Lights**
- **Clap Lights**
- **Remote Lights**
  Transmitter/**Receiver**

Data
- **Max-Min Thermometer**
- **Indoor Outdoor Thermometer**
- **Sound Logger**
- **Environment Logger**

Automation
- **Alarm Clock**
- **Security Beacon**
- **Door Alarm**
- **Magnet Door Hello**
- **Activity Picker**
- **Proximity Beacon**
- **Tilt Alarm**
- **Radio Door Alarm**