

Project Brief: Soil Moisture Sensor



Soil Moisture Sensor

Objective:

Use the supplied crafting materials to create an enclosure for a portable soil moisture sensor.

Requirements:

- The device should be handheld and easy to move from place to place.
- Must be easy to insert and remove from the soil.
- Must be as waterproof as possible.
- The screen of the micro:bit should be visible to display the reading.
- The buttons should be accessible to take a reading.
- Batteries will need to be changed periodically.

Instructions:

- Use the time available to construct a prototype of your enclosure for a portable soil moisture sensor.
- Pay particular attention to the requirements above – your enclosure needs to satisfy all these requirements.
- Materials and machines have a cost – keep track of the cost of your prototype using your pricelist and Bill of Materials template.
- Aim to build something that would be easy to build again (with quality control in place).
- Maximise efficiency: think about speed to build, efficiency of material use and cost of materials.