

How to make a Plant Moisture Sensor

Introduction:

This worksheet describes how to make a plant moisture sensor. We hear that water and electronics should never mix, this is because water has very low resistance. It is this principle which allows the plant moisture sensor to detect the amount of water in the soil. As water is removed from the soil, the resistance increases, and conversely, when the plant is watered, the resistance of the soil decreases.

Plant Moisture Sensor In Action: Below you can see the completed sensor placed inside a plant pot.



Ingredients:

- Metal-lined material (backed in insulating material)
- Plant (in a pot)

Step 1: Carefully cut the conductive layer to leave 2 separate contacts, then connect the sensor wires to each side, make sure that they don't connect.



Safety: Please note that you use these resources at your own risk. Correct use of some components requires care.