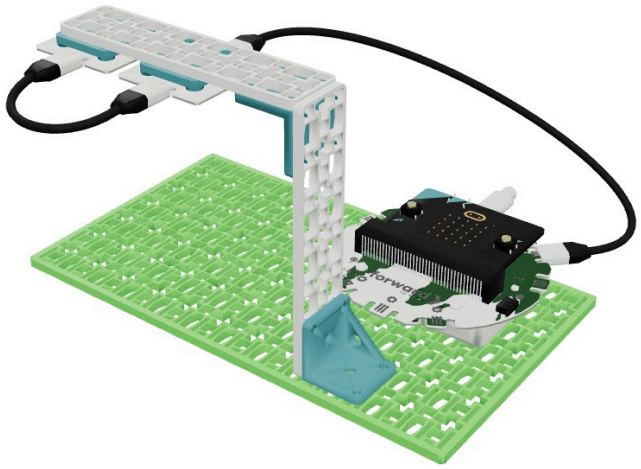
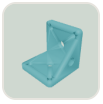
Glacier Tracking

12 steps · 12 parts



You will need


1 × Base Plate

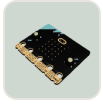

2 × Corner Connector


2 × Medium Frame


1 × LED Light


1 × Solar Sensor

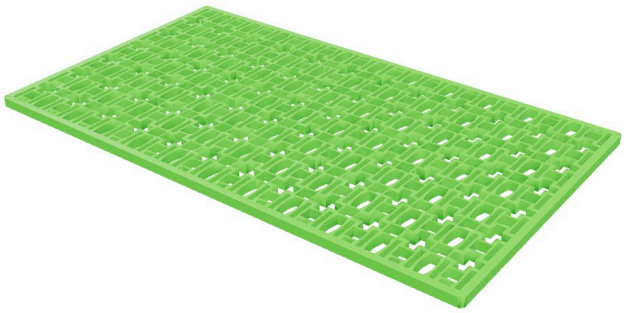

1 × Long Cable Connector


1 × micro:bit


1 × Short Cable Connector


1 × Micro USB Cable


1 × Breakout Board (empty)

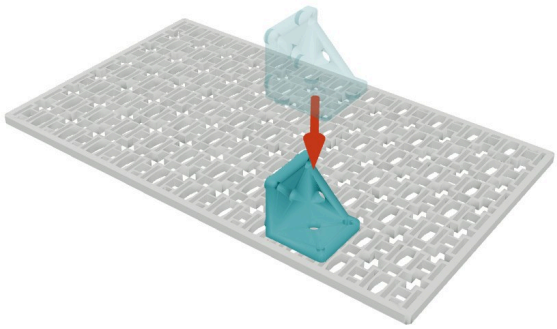


1

Start with a Base Plate.

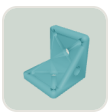


1 × Base Plate

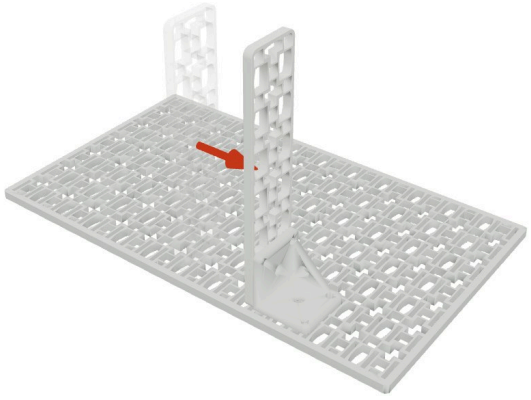


2

Add a Corner Connector towards the right side of the Base Plate.



1 × Corner Connector

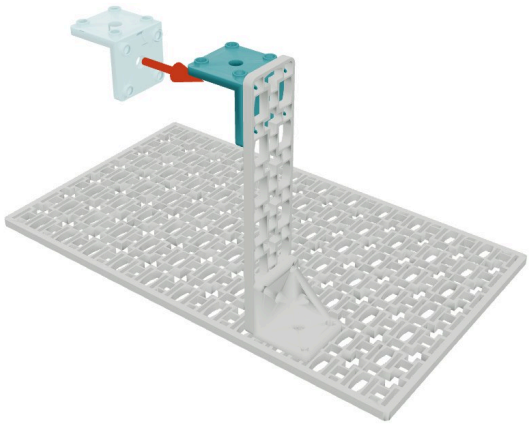


3

Attach a vertical Medium Frame to the Corner Connector.

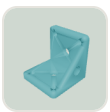


1 × Medium Frame

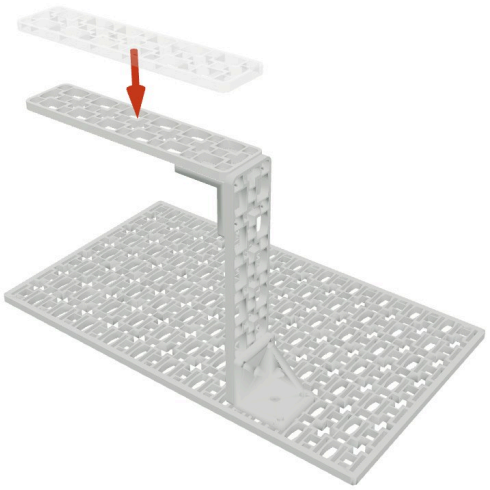


4

Add another Corner Connector to the top end of the Medium Frame. It should be pointing in the opposite direction as the previous Corner Connector.



1 × Corner Connector

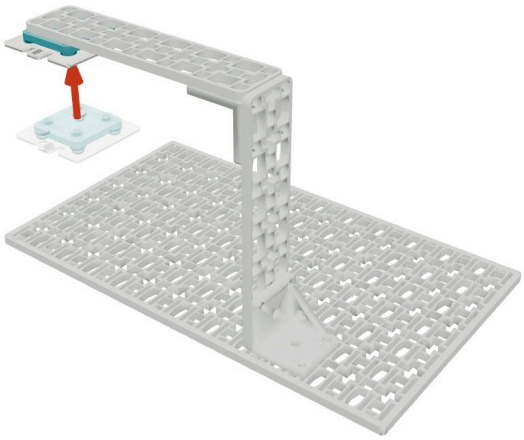


5

Add another Medium Frame by attaching it to the second Corner Connector. The Medium Frame should extend out over the Base Plate.



1 × Medium Frame

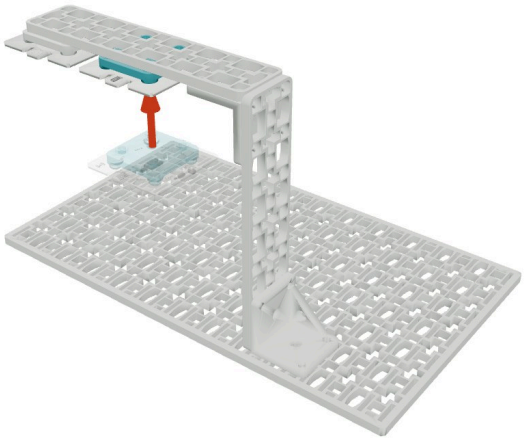


6

Attach the Solar Sensor to the end of that Medium Frame, facing down towards the Base Plate.



1 × Solar Sensor

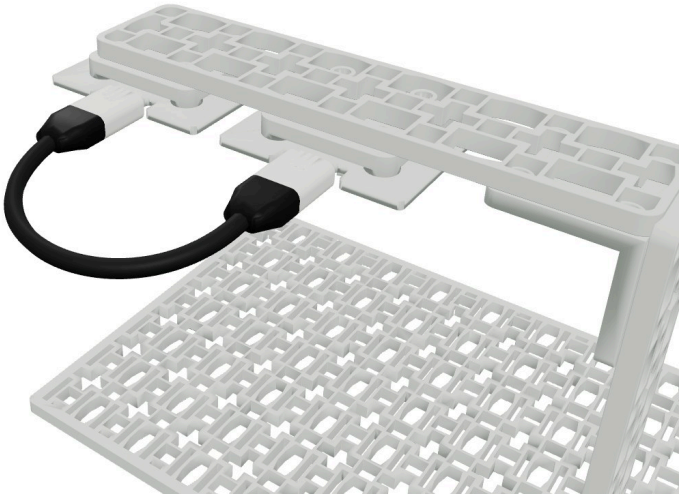


7

Attach an LED Light next to the Solar Sensor, also facing down towards the Base Plate.



1 × LED Light



8

🔌 Use a Short Cable to connect the Solar Sensor and LED Light.



1 × Short Cable Connector



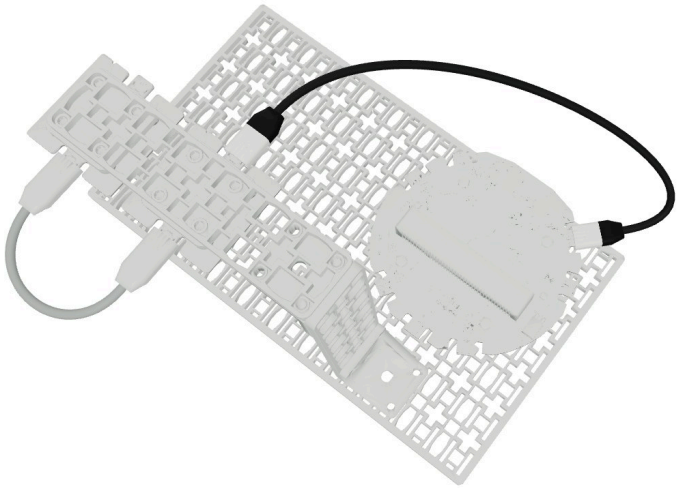
9

Look at your build from above

Attach the Breakout Board to the Base Plate. It should be off to the side, and not underneath the Sensors.



1 × Breakout Board (empty)

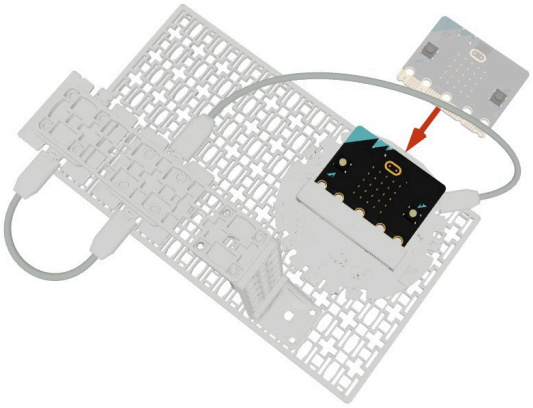


10

🔌 Use a Long Cable to attach the LED Light to a Sensor Port on the Breakout Board.

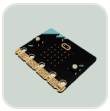


1 × Long Cable Connector

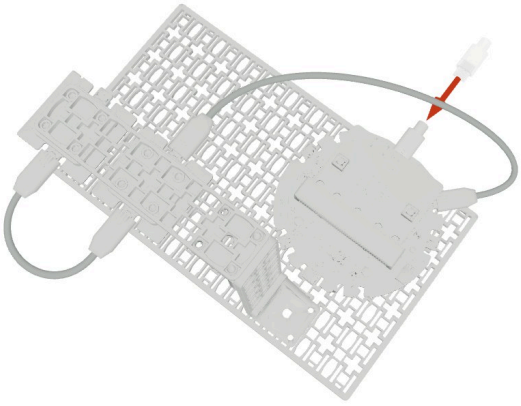


11

Insert the micro:bit into the edge connector on the Breakout Board.



1 × micro:bit



12

Insert the Micro USB Cable into the micro USB port on the micro:bit.



1 × Micro USB Cable