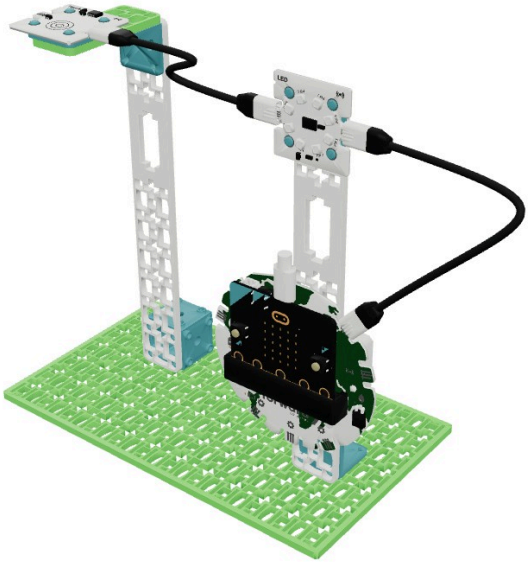
Bee Counter

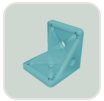
14 steps · 14 parts



You will need


1 × Base Plate


1 × Cube Connector


2 × Corner Connector

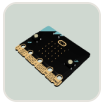

1 × Small Frame


2 × Long Frame


1 × LED Light

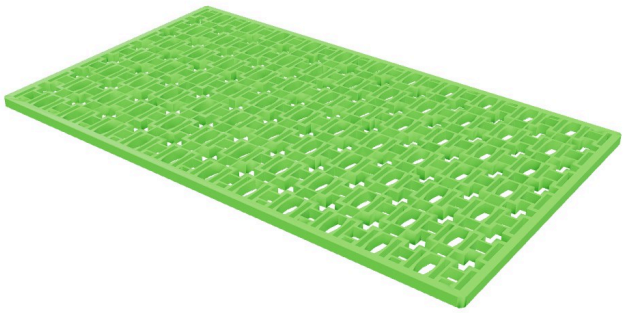

1 × Touch Sensor


2 × Long Cable Connector


1 × micro:bit


1 × Micro USB Cable


1 × Breakout Board (empty)

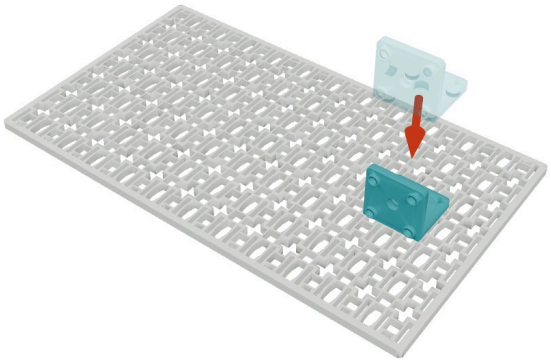


1

Place the Base Plate flat on the workspace.

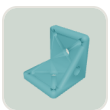


1 × Base Plate

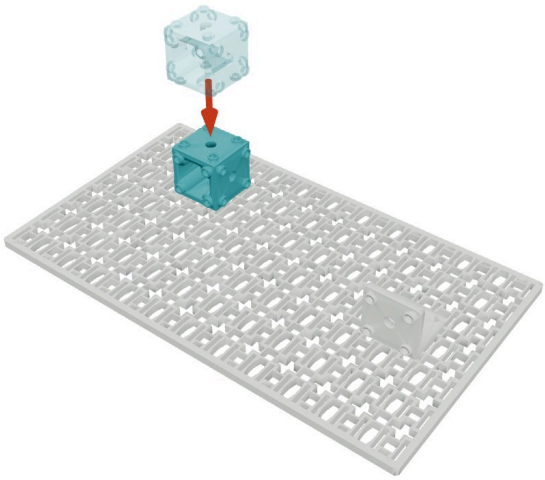


2

Add a Corner Connector block to the right side of the Base Plate.



1 × Corner Connector

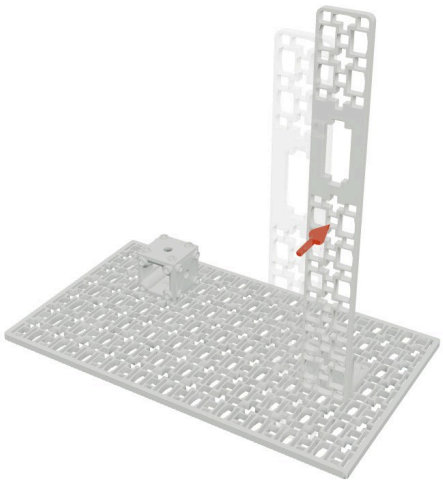


3

Add a Cube Connector to the left side of the Base Plate, and towards the back of the Base Plate.



1 × Cube Connector

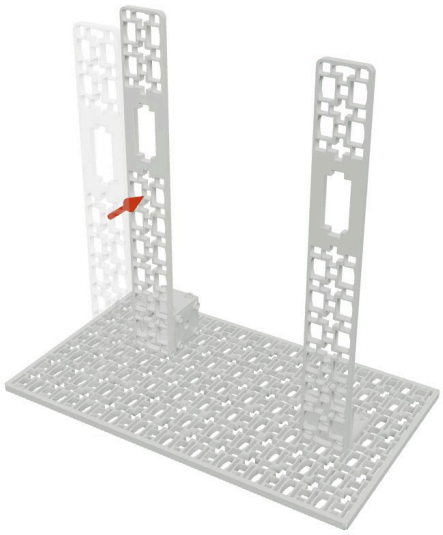


4

Stand a Long Frame up vertically and attach it to the Corner Connector.



1 × Long Frame

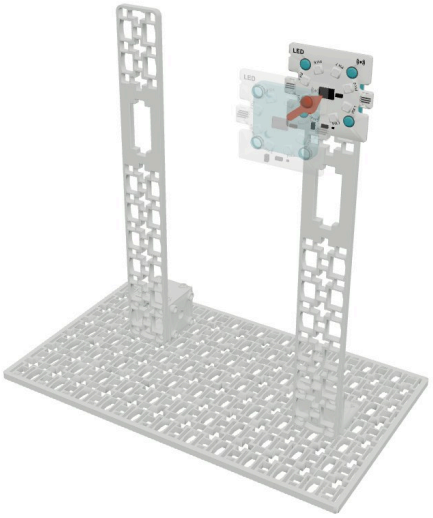


5

Stand another Long Frame up vertically and attach it to the Cube Connector.



1 × Long Frame

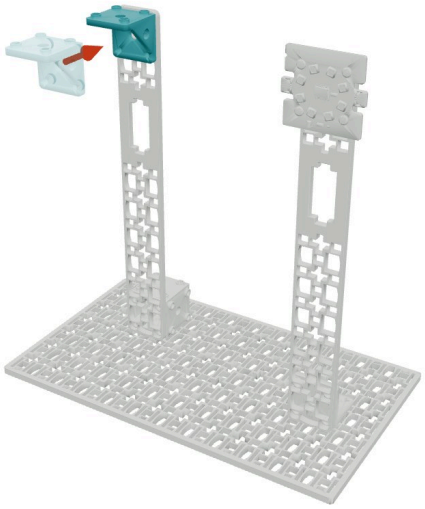


6

Add the LED Light to the top of the Long Frame on the right side of the assembly.

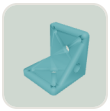


1 × LED Light

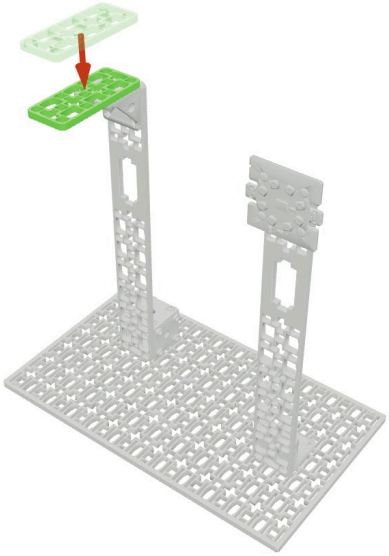


7

Add a Corner Connector to the top of the Long Frame on the left side of the assembly. The exposed flat side of the Corner Connector should be facing up.



1 × Corner Connector



8

Attach a Small Frame on top of the Corner Connector to create a ledge.



1 × Small Frame

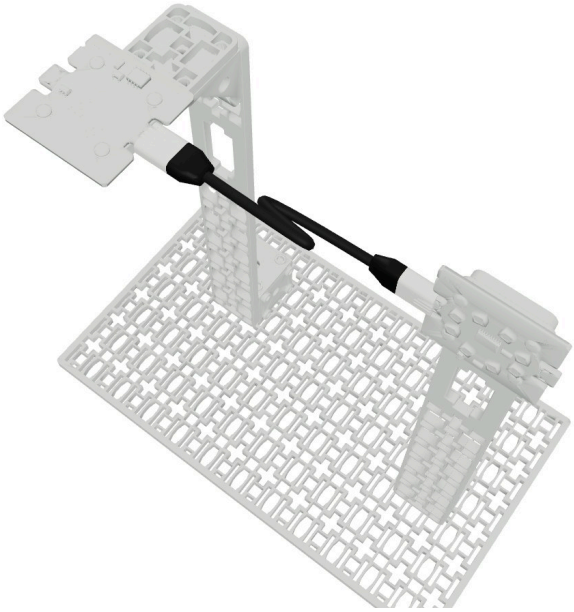


9

Attach the Touch Sensor to the end of the Small Frame.

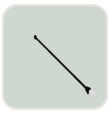


1 × Touch Sensor



10

🔌 Use a Long Cable to attach the Touch Sensor and LED Light.



1 × Long Cable Connector

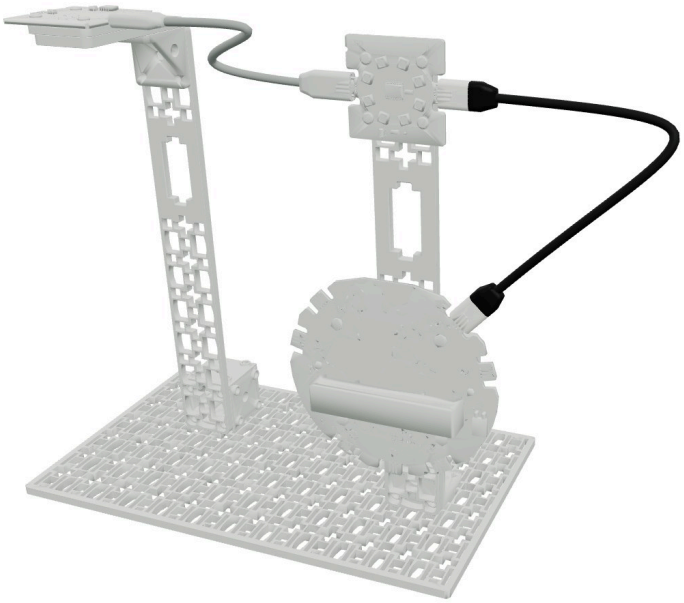


11

Attach the Breakout Board to the vertical Long Frame on the right side of the assembly.



1 × Breakout Board (empty)

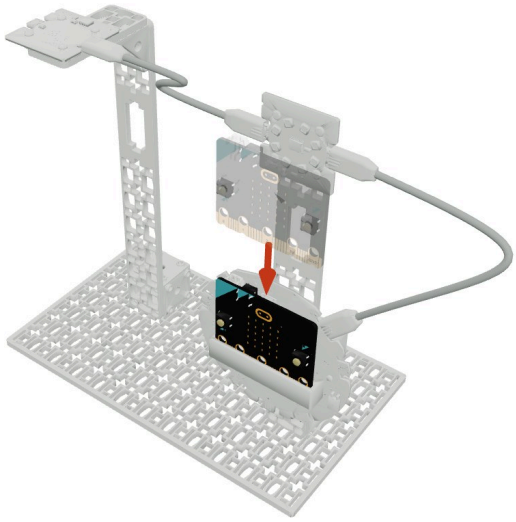


12

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

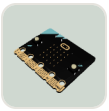


1 × Long Cable Connector

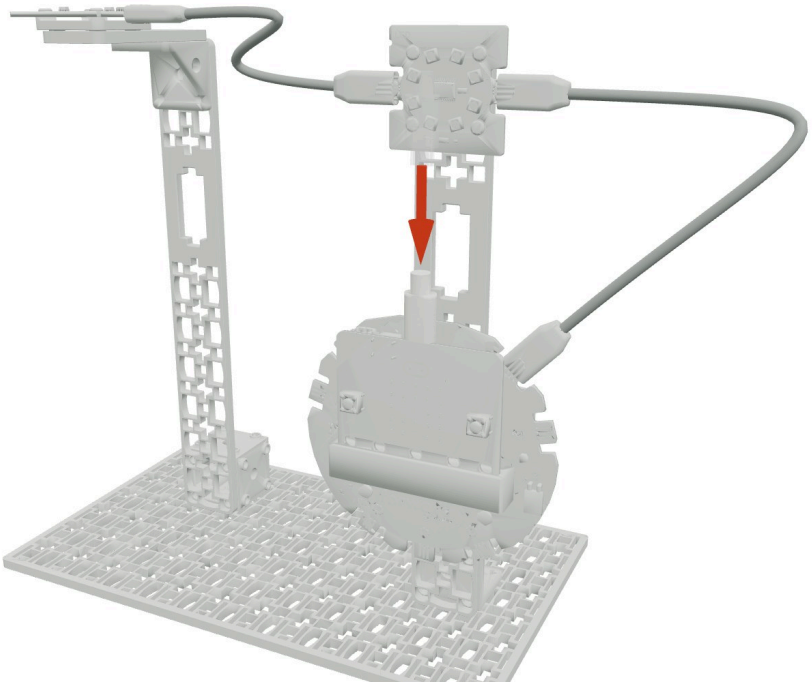


13

Plug the micro:bit into the Breakout Board, with the micro:bit's LED display facing out.



1 × micro:bit



14

Insert the Micro USB Cable into the micro USB port at the top of the micro:bit.



1 × Micro USB Cable