

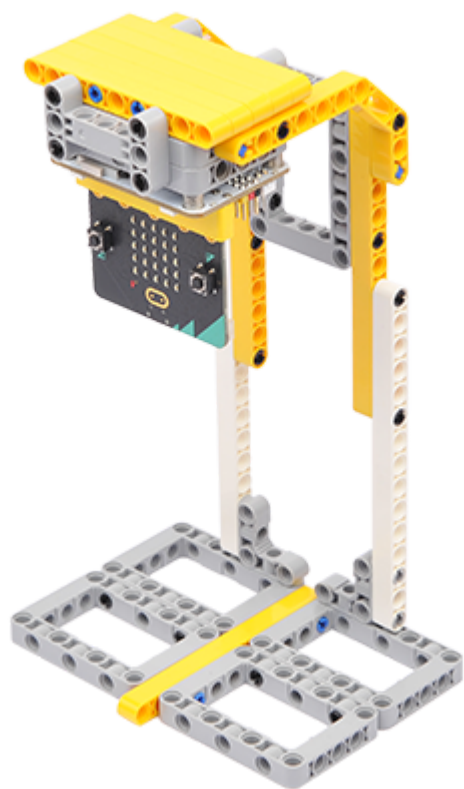
Case 30: The Ambient Lighting

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32.1. Purpose

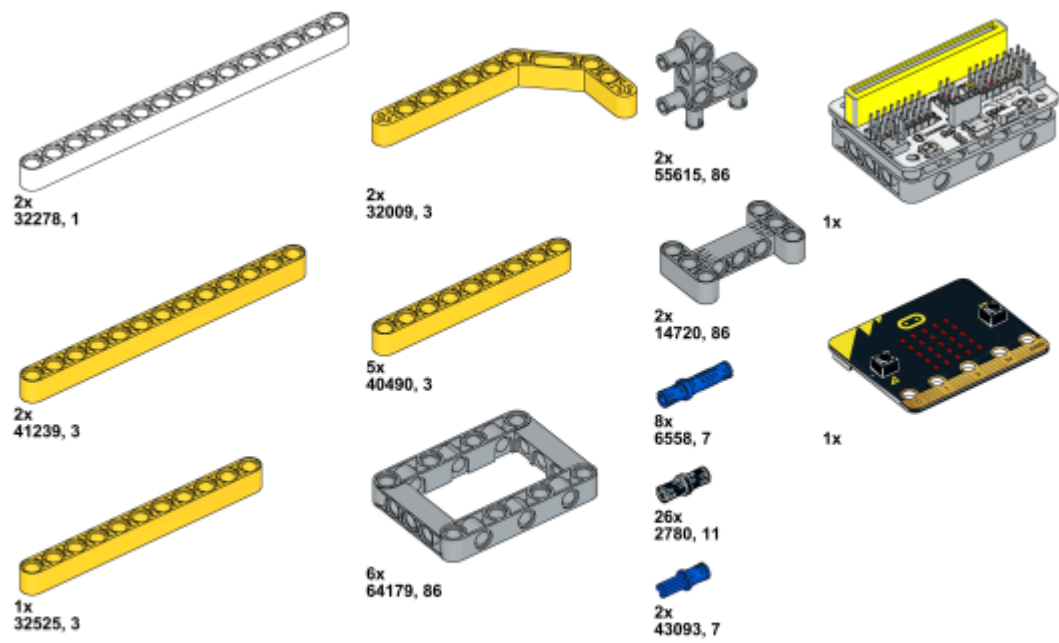
Make an ambient lighting.



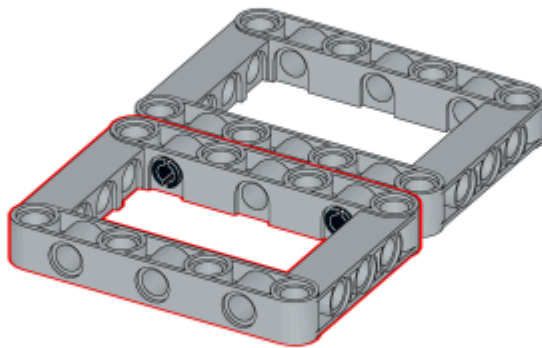
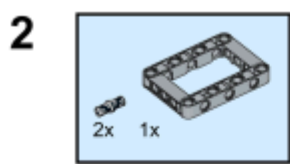
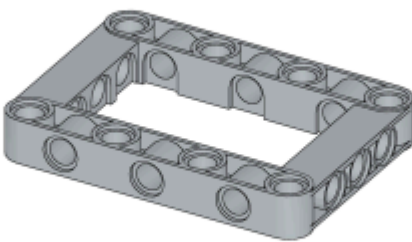
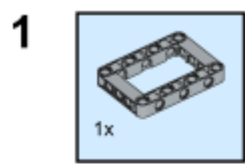
32.2. Link:

[micro:bit Wonder Building Kit](#)

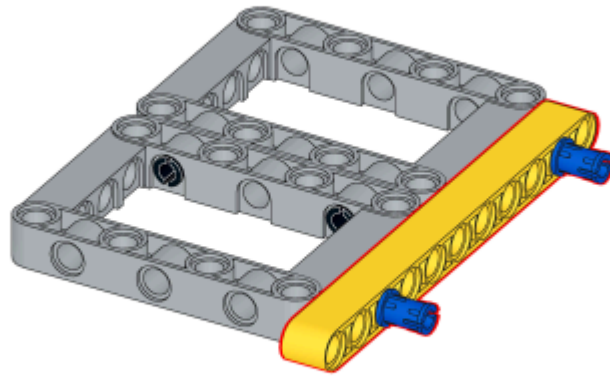
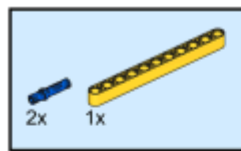
32.3. Materials Required



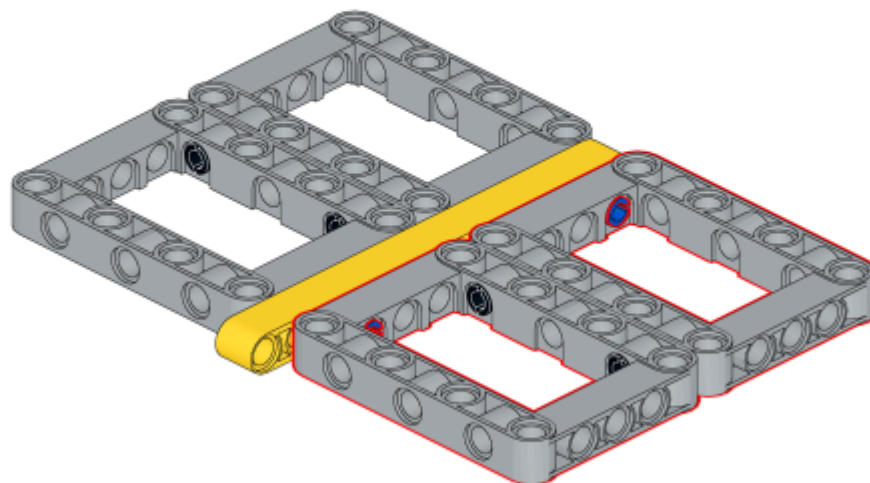
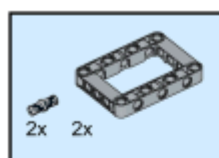
32.4. Bricks build-up



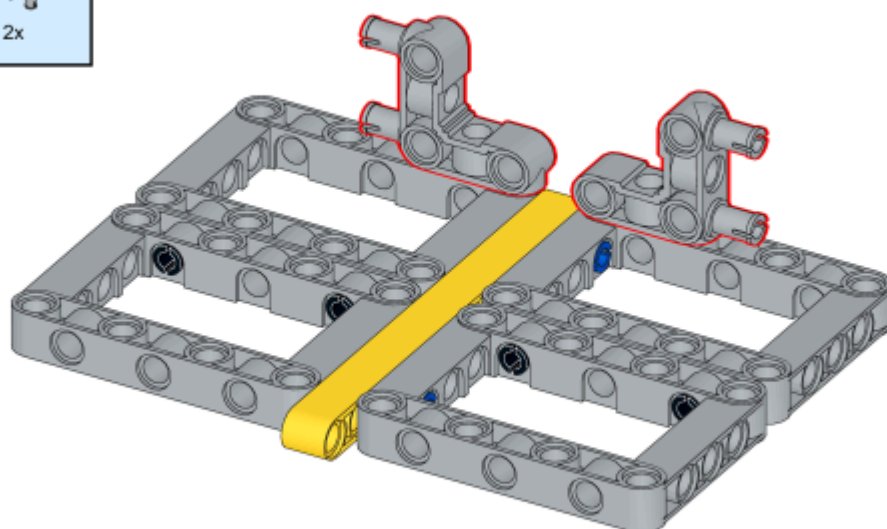
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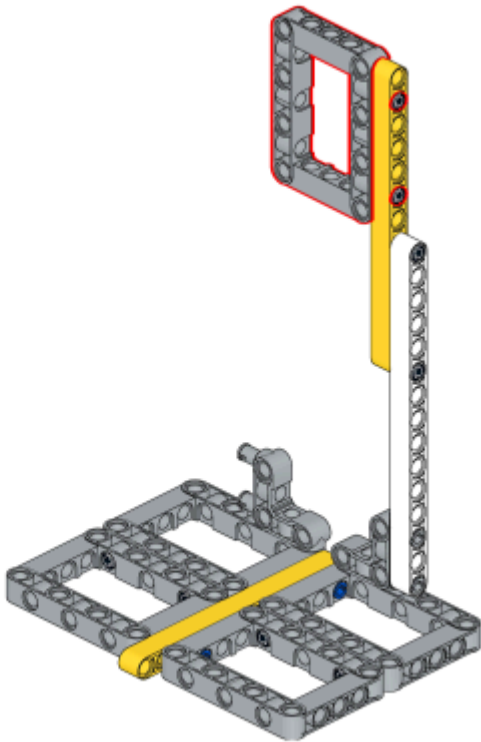
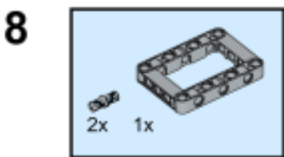
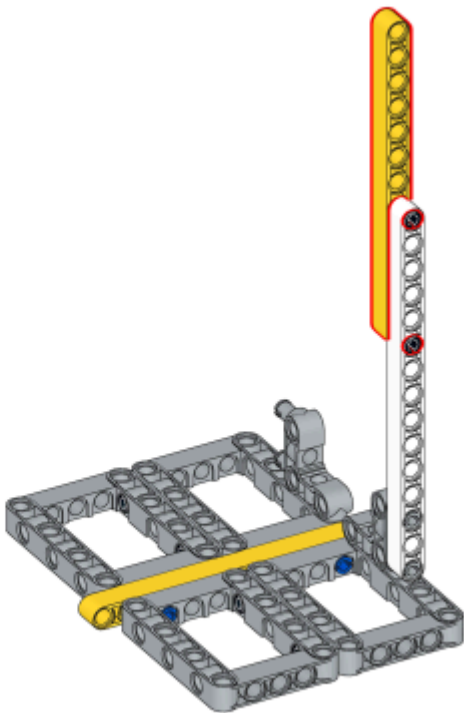
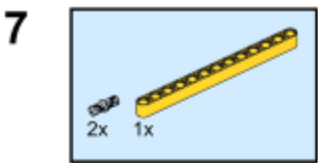
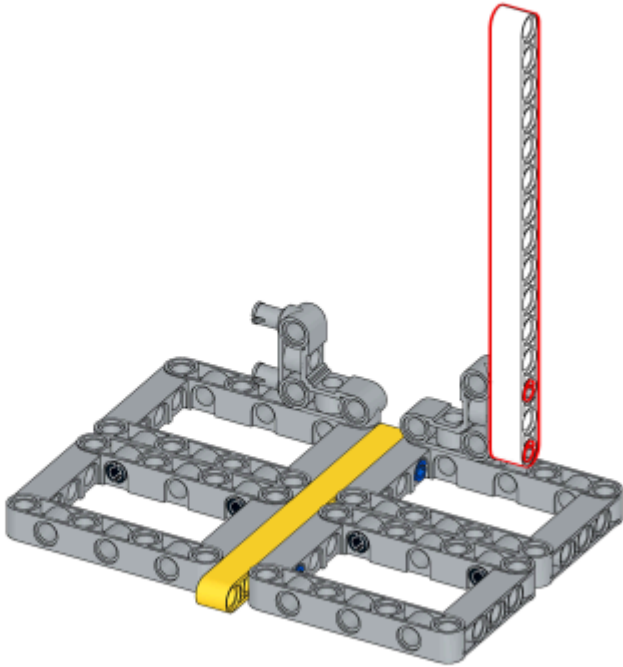
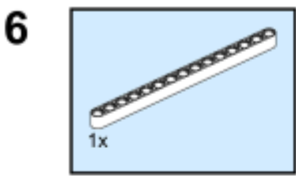


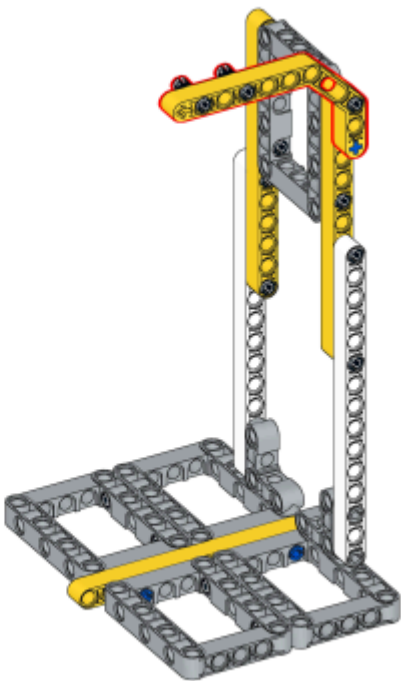
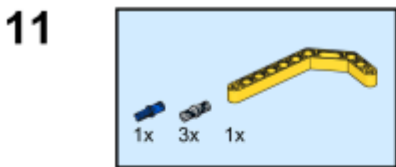
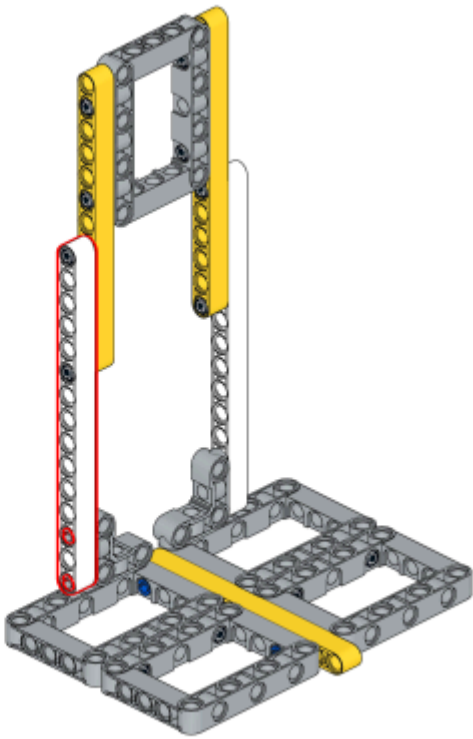
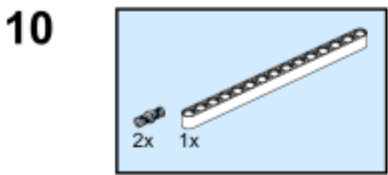
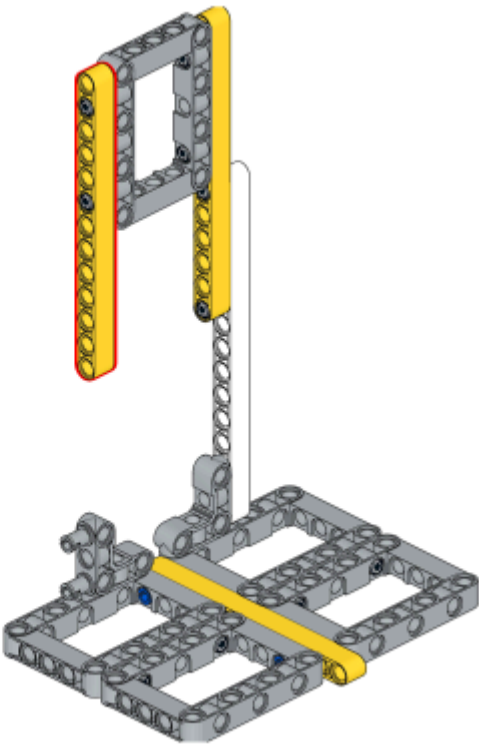
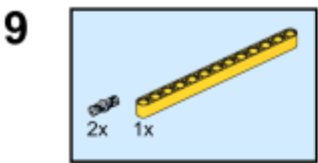
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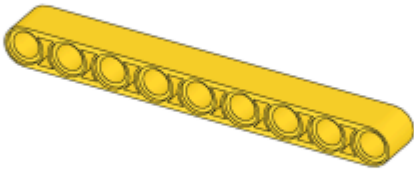
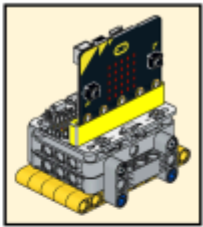
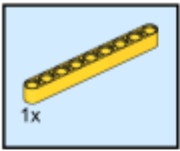
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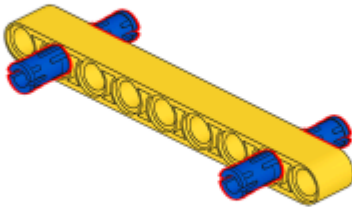




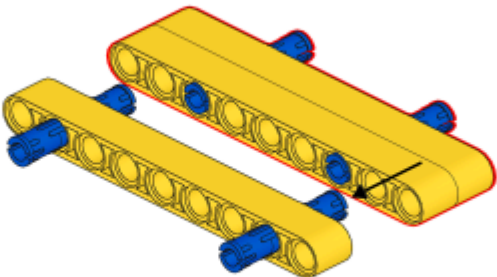
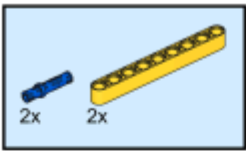
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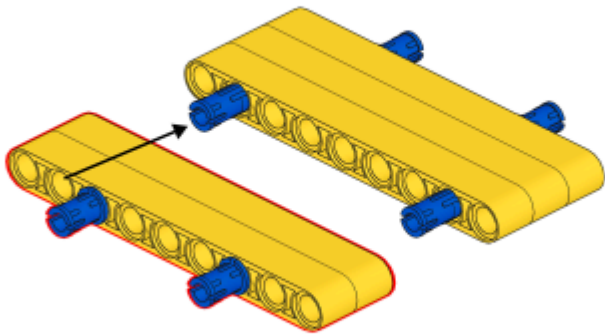
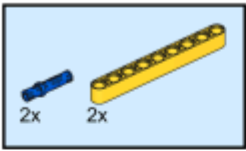
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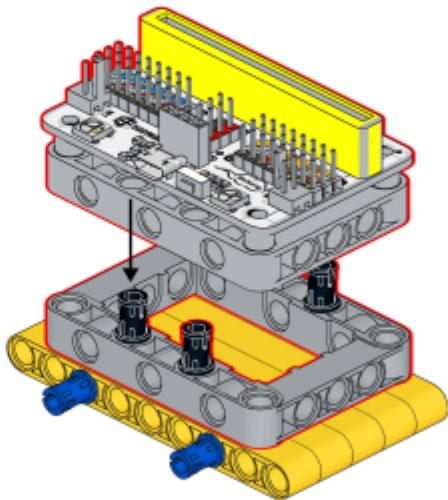
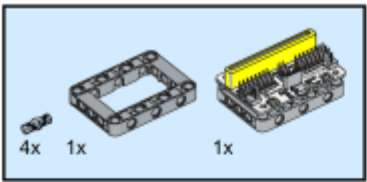
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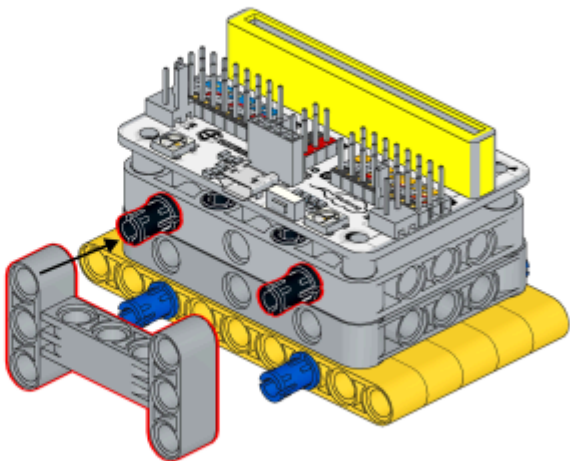
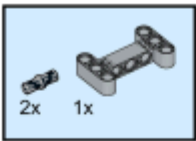
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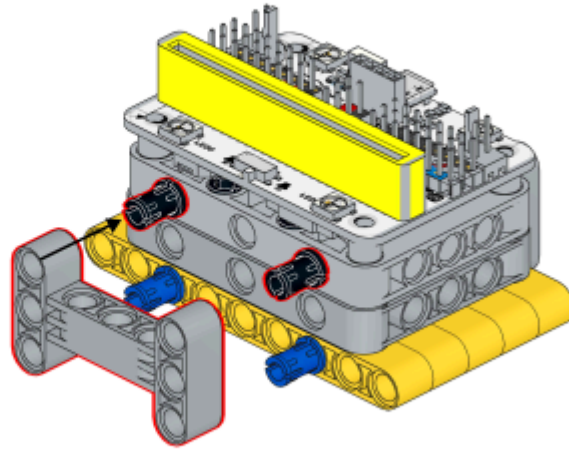
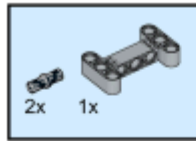
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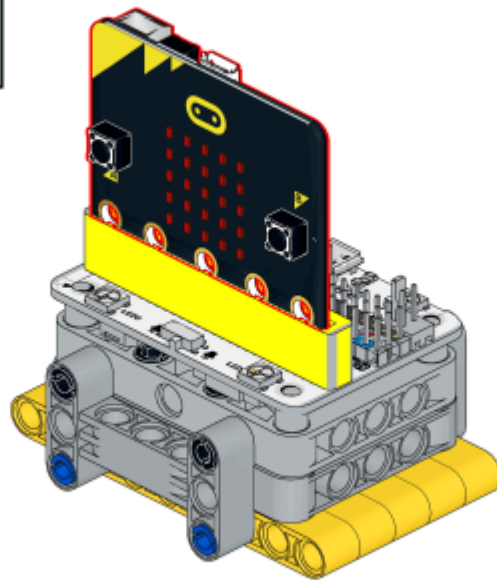
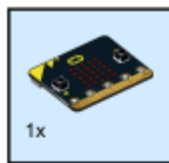
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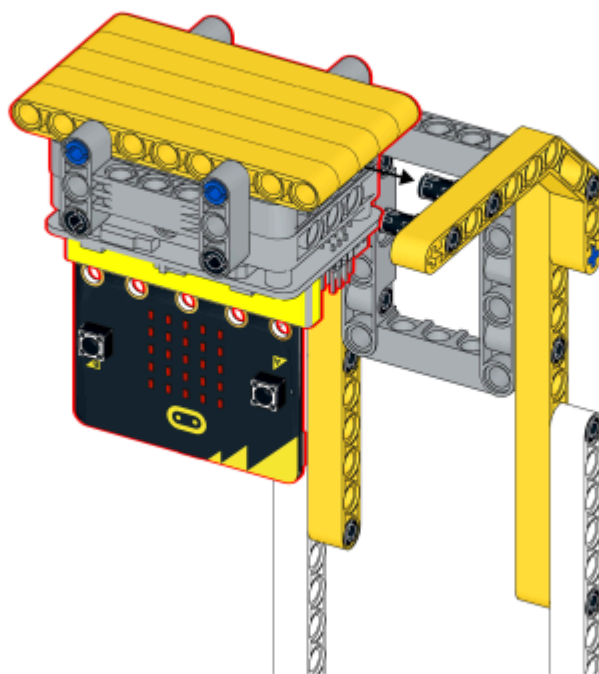
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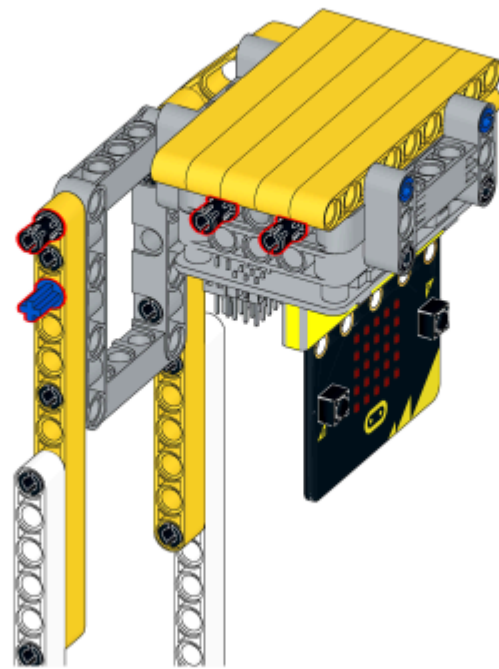
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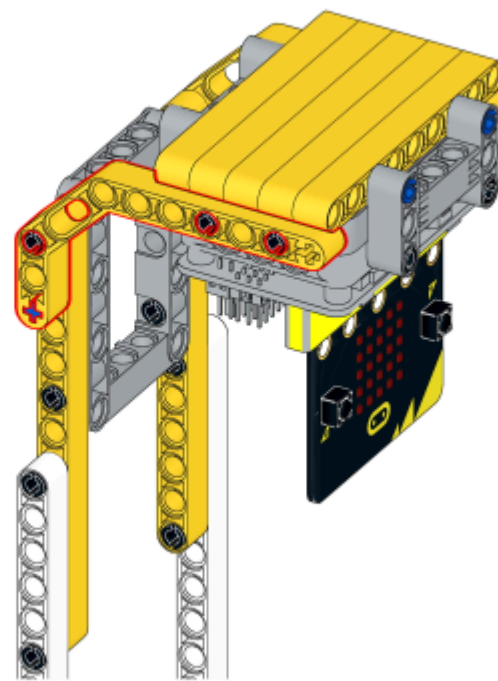
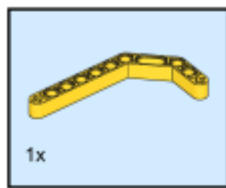
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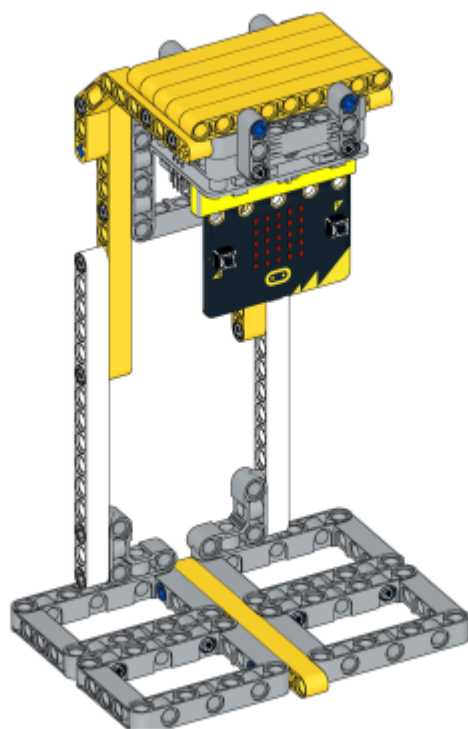
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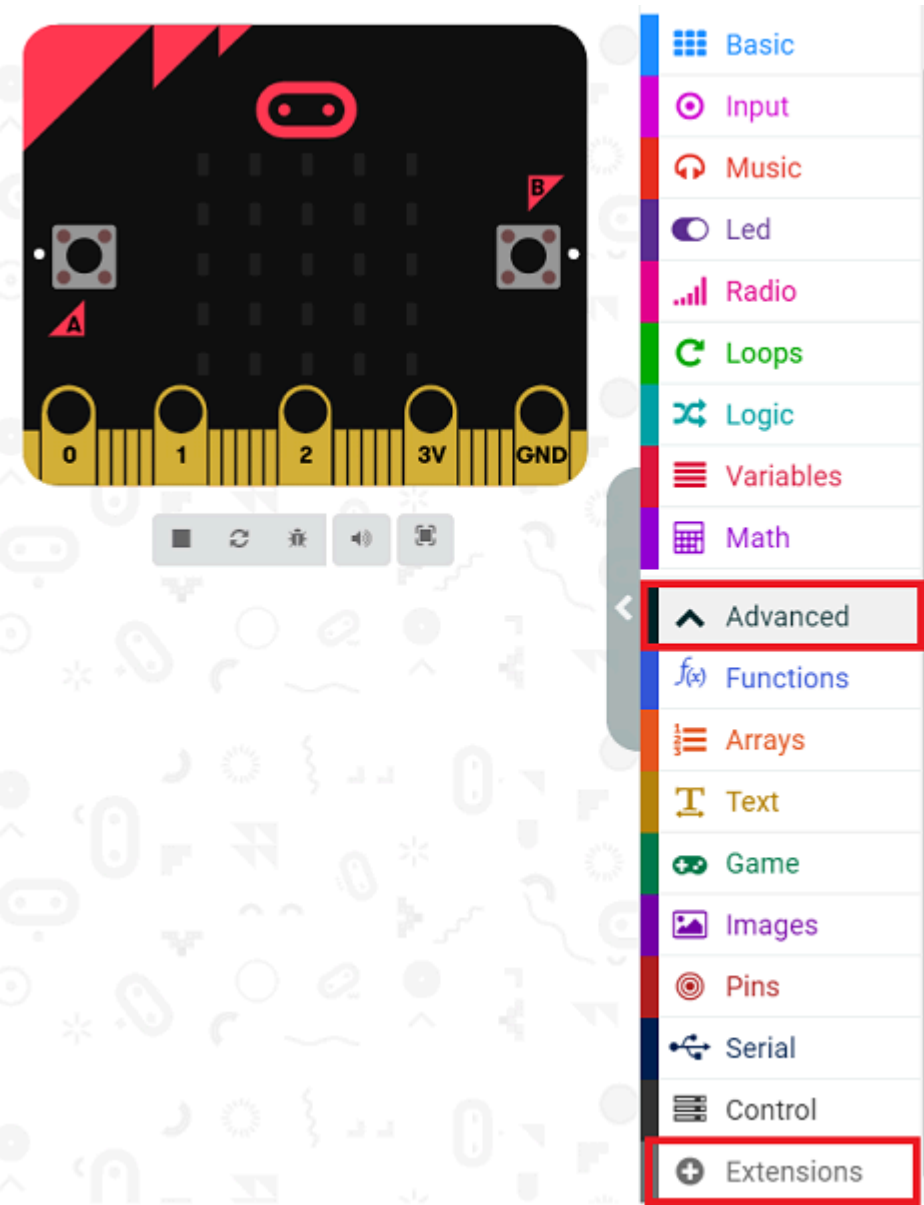
32.5. Software Platform

[MakeCode](#)

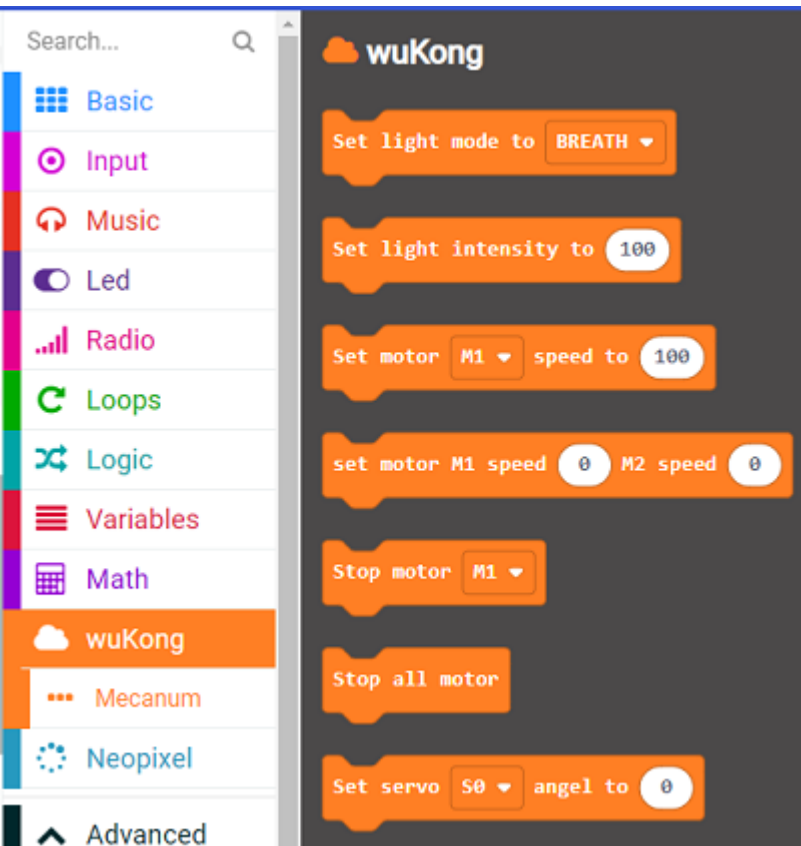
32.6. Coding

Add extensions

Click “Advanced” in the MakeCode to see more choices.



Search with Wukong in the dialogue box to download it.



Program

on start

set strip to NeoPixel at pin P16 with 4 leds as RGB (GRB format)

set i to 0

forever

if i = 1 then

strip show color red

else if i = 2 then

strip show color orange

else if i = 3 then

strip show color yellow

else if i = 4 then

strip show color green

else if i = 5 then

strip show color blue

else if i = 6 then

strip show color indigo

else if i = 7 then

strip show color violet

else if i = 8 then

set i to 0

else if i = 0 then

strip show color black

on button A pressed

change i by 1

on button B pressed

set i to 0

Link:https://makecode.microbit.org/_hHDAH6Fz6YCb

Result

When button A is pressed, the four Rainbow LEDs of the Wukong breakout board will light up. Pressing button A again, the color will change; and when button B is pressed, all LEDs are off.