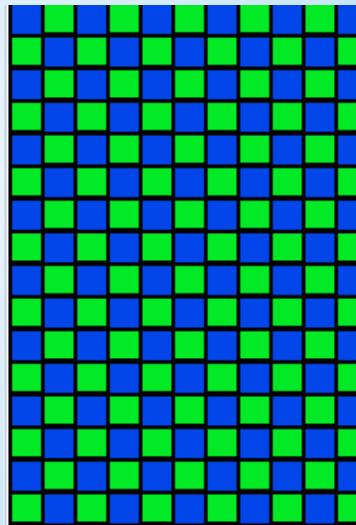


Level 1

Loom to Grid

Translate the weaving into a grid pattern



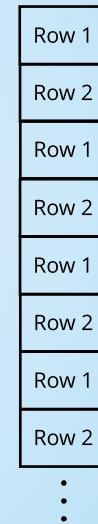
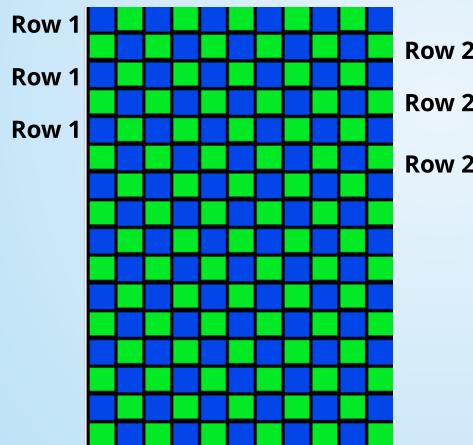
Level 2 Part 1

Grid to Box

Translate the grid pattern into a box pattern

Write the sequence of rows

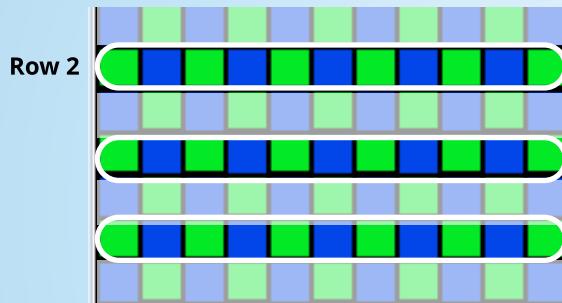
Look for repeating rows



Level 2 Part 2

Grid to Box

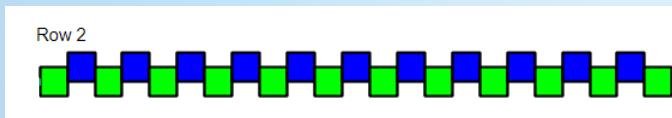
Translate the grid pattern into a box pattern



Assign the color of the vertical strings as Up and the color of the horizontal strings as Down

Here █ = Up and █ = Down

Make a pattern for each row



A completed row should look something like this

Level 3 Part 1

Box to Scratch

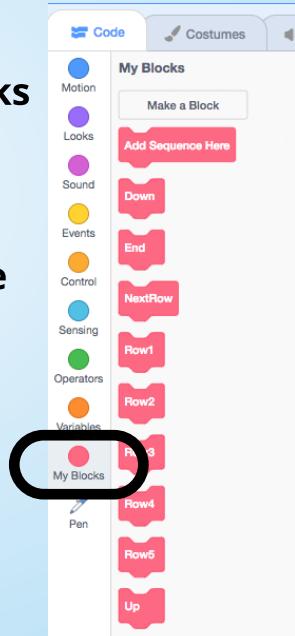
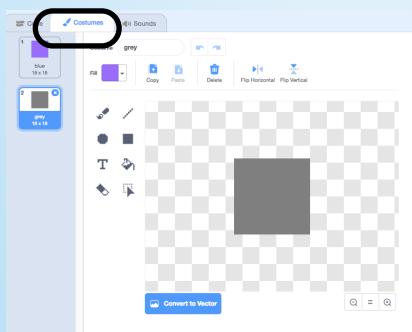
Translate the box pattern into long Scratch code

Code each of your rows in Scratch, using 11 Up and Down blocks total for each

Pink blocks can be found in the More Blocks section

Make sure to keep the StartRow block

Change the colors of your pattern with the costumes tab



Level 3 Part 2

Box to Scratch

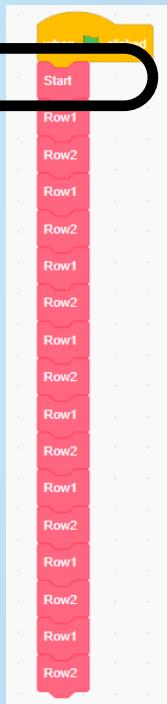
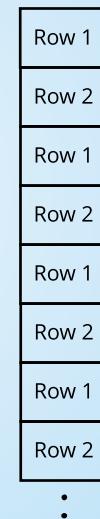
Translate the box pattern into long Scratch code

Code the sequence of rows in Scratch

Make sure to keep the Start Row block at the top

You can repeat the pattern as many times as you want, but the screen will only hold 19 rows

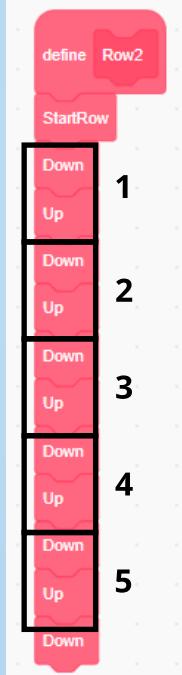
Click  to see if your pattern matches your grid



Level 4 Part 1

Long to Short Scratch

Translate the longer Scratch code into shorter Scratch code



Look for repeating sections of code in the rows

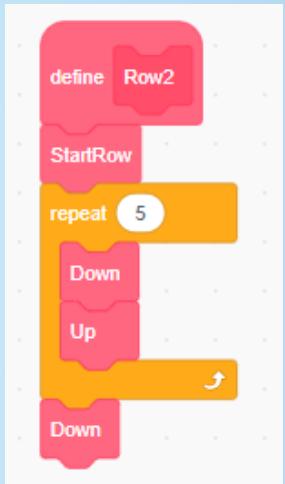
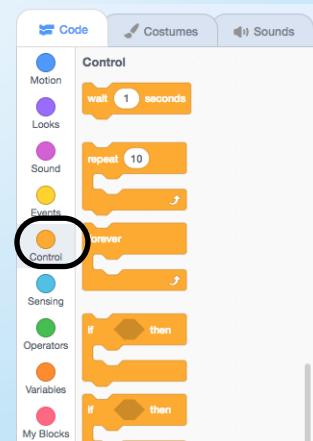
Count how many times those sections repeat

Replace duplicates with repeat blocks

Repeat blocks can be found in the Control section

Do this for each row

Remember there are different ways to do this, depending on your pattern



Level 4 Part 2

Long to Short Scratch

Translate the longer Scratch code into shorter Scratch code

Look for repeating sections in your rows

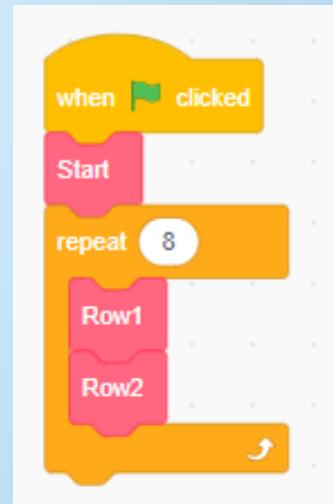
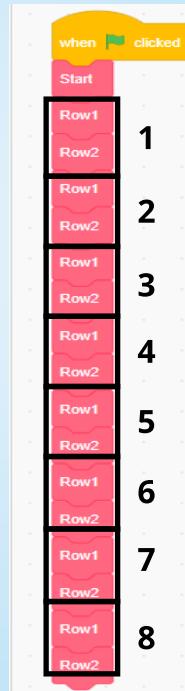
Count how many times those sections
repeat

Replace duplicates with repeat blocks

Repeat blocks can be found in the Control
section

Remember there are different ways to do
this, depending on your pattern

Click  to see if your pattern matches
your grid



Level 5 Modify and Customize

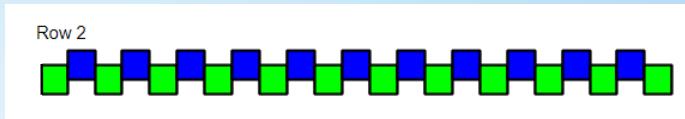
Create your own patterns and weaving

Modify your Scratch pattern or
create a new one

When using the box pattern to
weave, each box represents one pipe
cleaner on the comb

If a box is up, then that pipe cleaner
is pushed up

If a box is down, then that pipe
cleaner stays down



Level 5

Customizing Tips

Make sure your edges are alternating colors, (blue, green, blue, green) otherwise your weaving will fall apart.

If you're having trouble with ideas, try using the same rows in your Scratch code and just changing the sequence

