

COUNTING



MOSAICS

Learning & Challenge Booklet

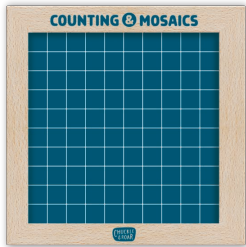
Set includes: 1 Double-sided wooden board,
100 Double-sided wooden tiles, 1 Storage bag,
& Challenge booklet with instructions.



WARNING:
CHOKING HAZARD - Small parts.
Not for children under 3 yrs.

Why are there 2 sides to the board?

The **Counting Side** (with the printed grid) was designed after a **Hundred Board**, an educational toy traditionally used in Montessori classrooms, thus the 100 tiles. (We know, that's a lot of tiles to keep track of, but that's why we included a nifty storage bag.)

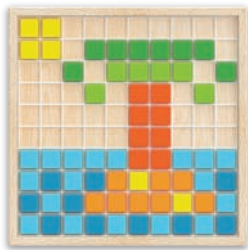


1	11
21	31
41	51
61	71
81	91

This side is not only helpful for recognizing and learning numbers, but also in understanding sequences. We even color coded the tiles in groups of 10 to help identify blocks of numbers (more on this later).

Also, as a reference, we've included a full sequence image (**1-100**) on the last page as a way to check the work your little one has done.

Flip on over to the **Mosaics Side** (with the plastic grid) to inspire your little one's inner artist. One side of the tiles are left blank for the **Mosaics** activities. We included 50 mosaic challenges to recreate and when your little artist is done, encourage them to have fun with free play.



Remember, there isn't one "right" way to play. In our testing, kids loved mixing and matching tiles & sides, so do what works best for you!

You can find lots of other ideas and activities for using your Hundred Board by searching **Montessori Hundred Board Activities** online.

Let's dive into counting! ▶

Learn 1-10

We recommend starting small. Let's begin with numbers **1-10**. Ask the child to pull out only the **RED** tiles (*this is where the color coding helps*) and place the rest of the tiles into the storage bag.

Create a column next to the board. The tiles should **not** be in the correct sequence, so mix them up.

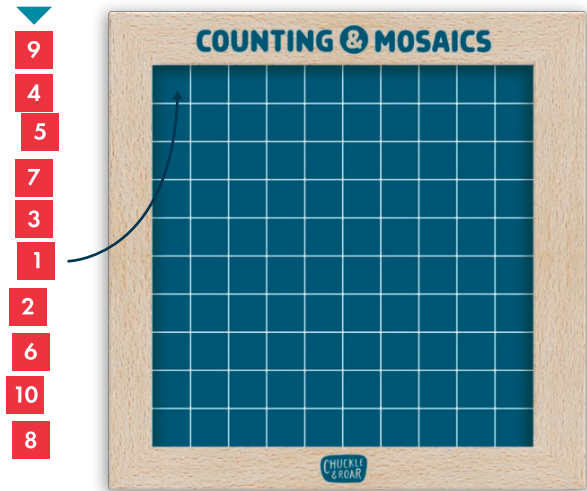
You go first. Find number **1** and place it in the first square in the upper left corner and say "**one**". Do the same with the remaining 9 tiles moving from left to right.

Once all tiles are placed, point to each number and call out the full sequence in order to confirm it is correct.

Now it's their turn. Remove the tiles and create a column again. Encourage your child to place the tiles in sequential order, just like you did, and then read them aloud. If your child is having trouble, they can visit page 63 as a reference. If any tiles are out of place, your little one can simply slide them into the correct space.

1. Create a vertical column with tiles 1-10 in a random order.

2. In order from 1-10, have your child pick a tile, place it in its correct spot, and say the number as it's placed.



As your little one moves to additional groups of 10, continue to create vertical columns, arranged by color, to the left of the red column.

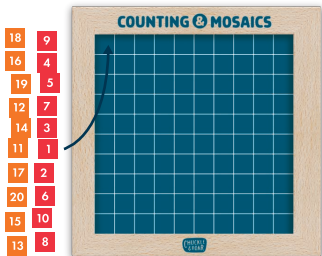
Gradually Learn 1-100

If your child is at a point where they are ready to count beyond **10**, add additional groups of 10 tiles at a time.

We've made it easy to identify groups by color. For example, if they're ready to sort numbers **1-20**, you can say, "**Grab the red and dark orange piles,**" (see above). Then, create vertical columns for each group of 10, by color, as previously mentioned.

Once the columns have been created, your child can place and say the numbers one row at a time, starting with **1-10**, then **11-20**. They can check their work against the reference page when they're done.

Let your little one dictate the pace and gradually build towards placing all 100 tiles.



Items of Note

As your child graduates to higher groups of numbers, keep an eye out for teachable moments. Here are a few examples:

1. Note how all of the **twenties** start with a “**2**”, all of the **thirties** start with a “**3**,” and so on.
2. Teach your child about patterns such as **odds & evens**. Point out how the “**ones**” are all in one column, and so on. These are great ways for them to begin checking their own work.
3. With all of the tiles laid out, teach your little one “**the tens**” - **10, 20, 30**, etc. and note where the corresponding tiles are on the board. Repeat with other number patterns, like “**the fives.**”



Columns - Identifying Like Numbers

1. Once your child is getting the hang of how the sequencing works, have them create the columns as usual and first place the top row of tiles from **1-10**.
2. Now, starting with the next column of numbers (**11-20**), have your little one grab the tiles in any order and place all 10 using the numbers in the row above as a guide - so **19** goes under **9**. **13** goes under **3**.

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“Where do you see this number [8] on the board?”

18 “8!”

“That’s right! Place it under the 8. Great job!”

3. Continue with the rest of the columns - **23** goes under **13**, and so on, until your child places all 100 tiles correctly.

Sequence

This exercise is meant to help them recognize the sequence of the numbers by **skip counting**. This can be introduced from the very beginning of learning numbers. Let's start small.

1. Starting with numbers **1-10**, place only the odd numbers, then have your child complete the sequence.



2. Next do the same exercise, but place only the evens, then have your child have them complete the sequence.





3. Ready for an even greater challenge? Try leaving larger and random sized gaps and see if the child can fill the tiles in correctly.



Move on to the **20s**, **30s**, and beyond, whenever ready.

First to 100: single or Multiplayer Math Game

What you'll need: One token (small coin, candy, game token, etc.) per player, 2 dice (1 die for a longer game).

1. Youngest player rolls the dice first, then adds the numbers and moves that many spots, in order.
(For example:   $3+4=$ move 7 spaces).
2. Play continues in clockwise order, with each player rolling, adding, then moving.
3. The first player to reach the tile 100 wins!

If you want to add a fun twist, try this: If anyone rolls doubles, they move as they normally would, *then* move **down** one space.

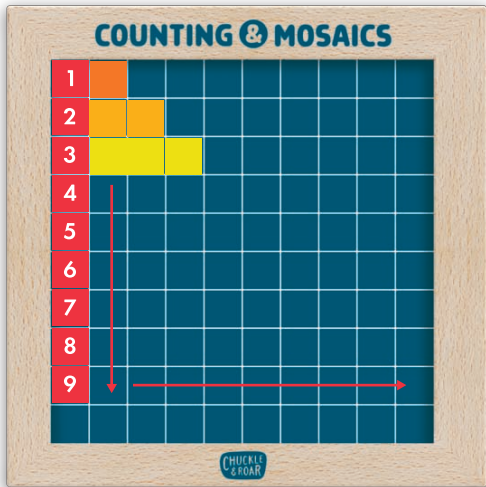
COUNTING & MOSAICS



1	2	3	4	5	6	7	$3+4=7$		
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Correspondence

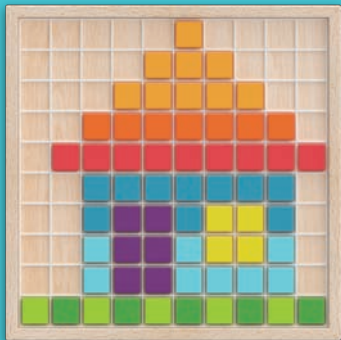
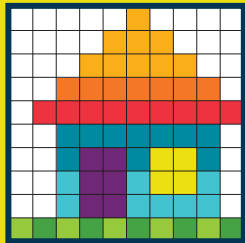
This one's really fun! Fill in the left column with **1-9**. Now, ask your child to place that many blank tiles next to each number. For example: 1 tile next to "1". 2 next to "2".



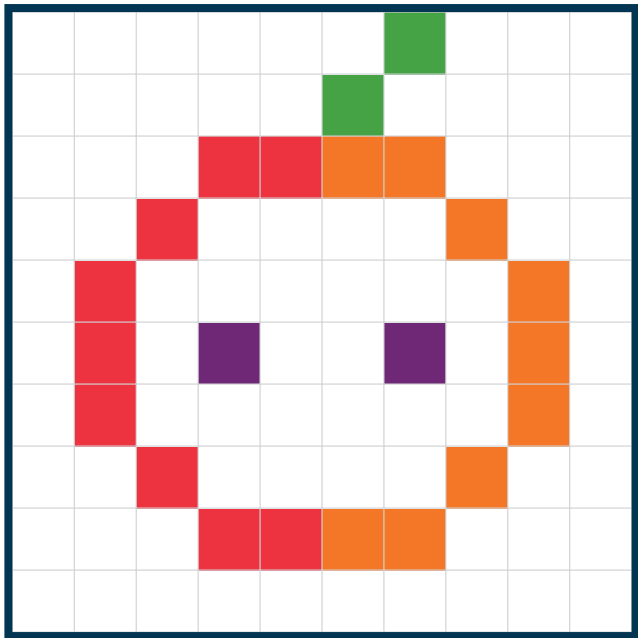
Work your way down from **1-9** until there's 9 tiles next to "9".

Mosaics! Let out the inner artist!

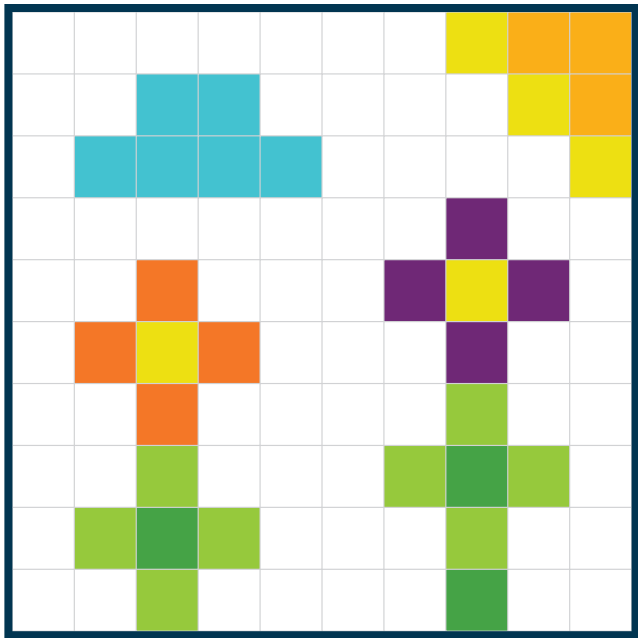
Now onto a completely different set of challenges. For these activities simply flip to the grid side of the board and use the reverse side of the tiles to recreate each image or patterns as they are shown. Enjoy!



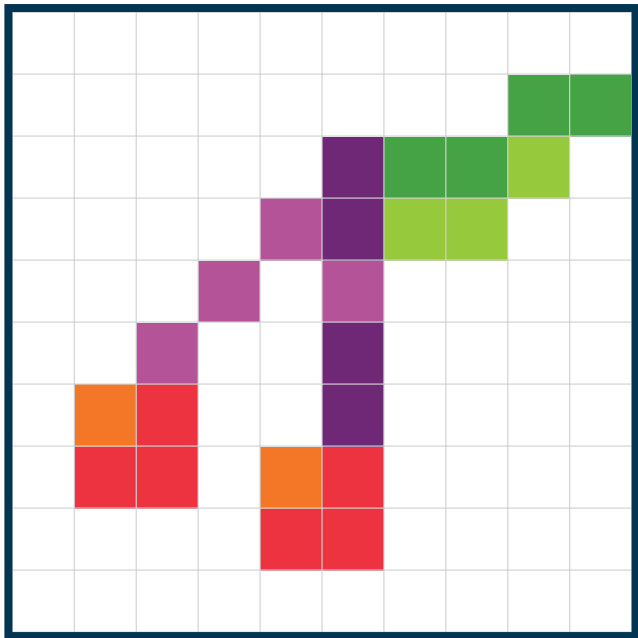
We are also huge advocates for little artists! Have your little one create their own images and patterns in free play. We'd love to see their creations, so please share them with us!



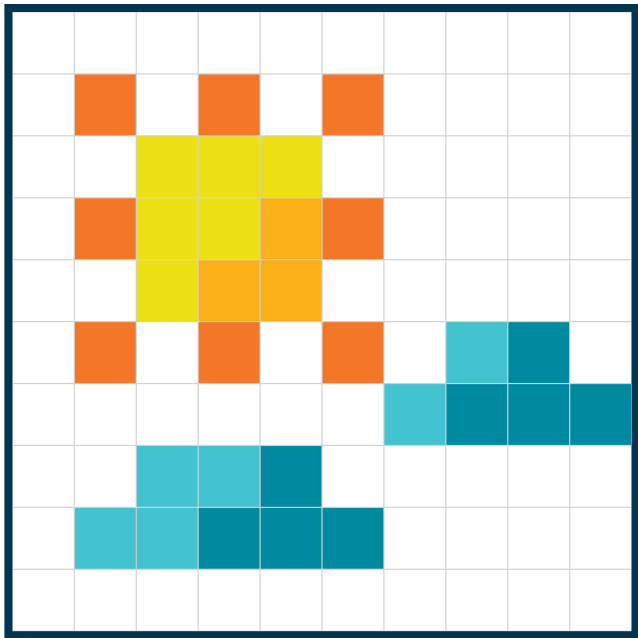
yummy apple



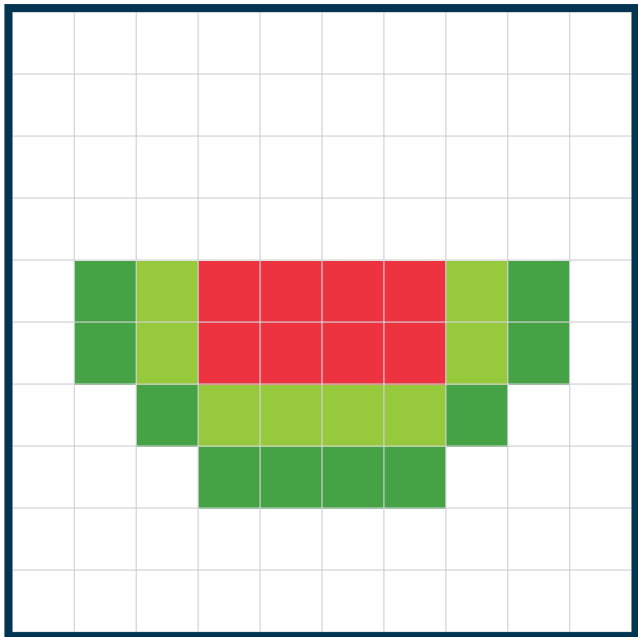
summer garden



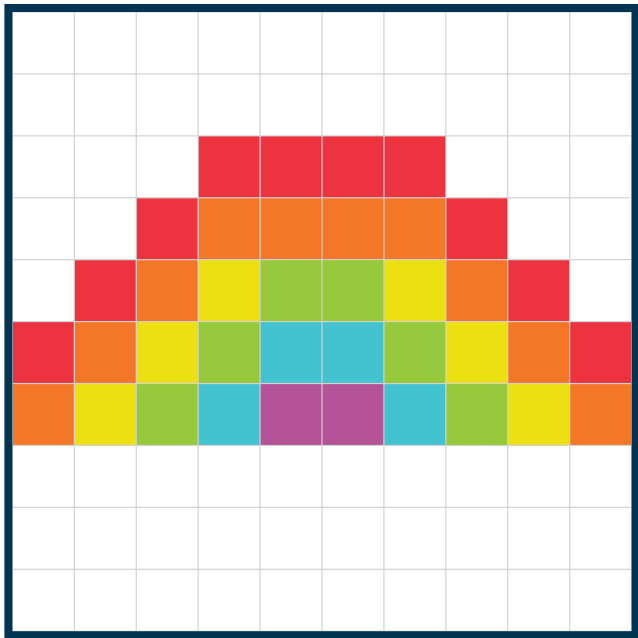
cherries



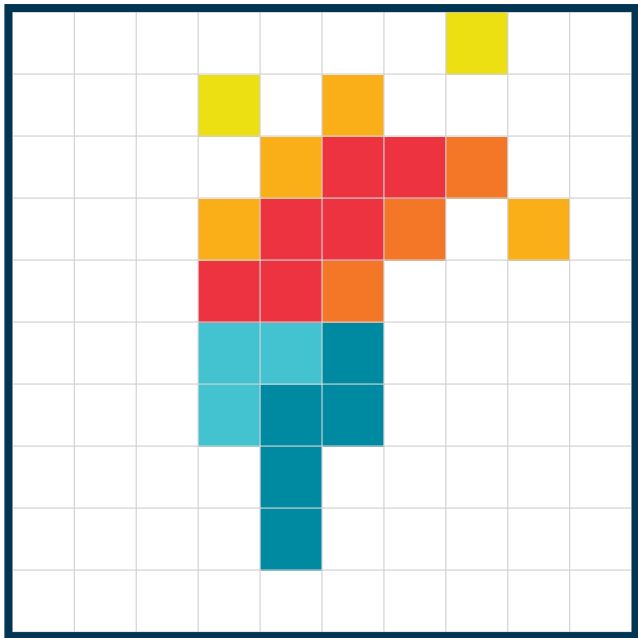
sunny sky



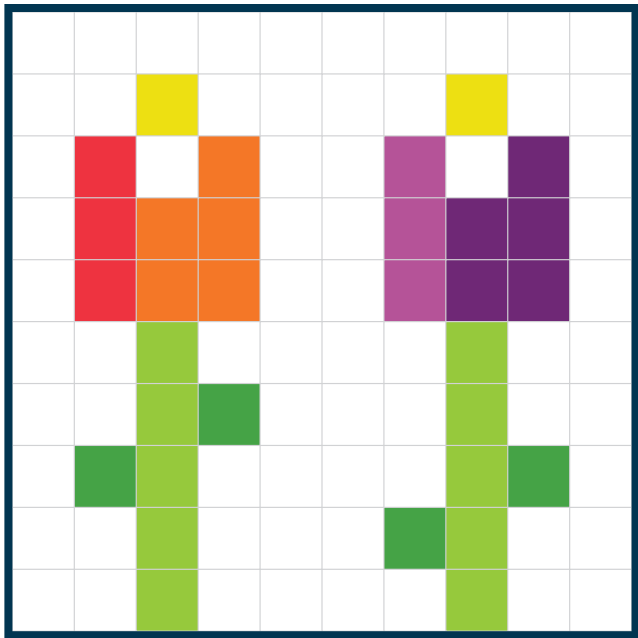
watermelon slice



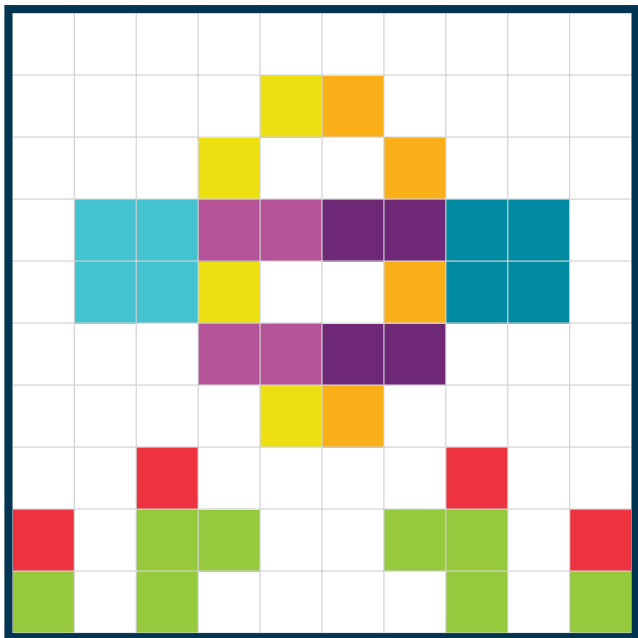
rainbow



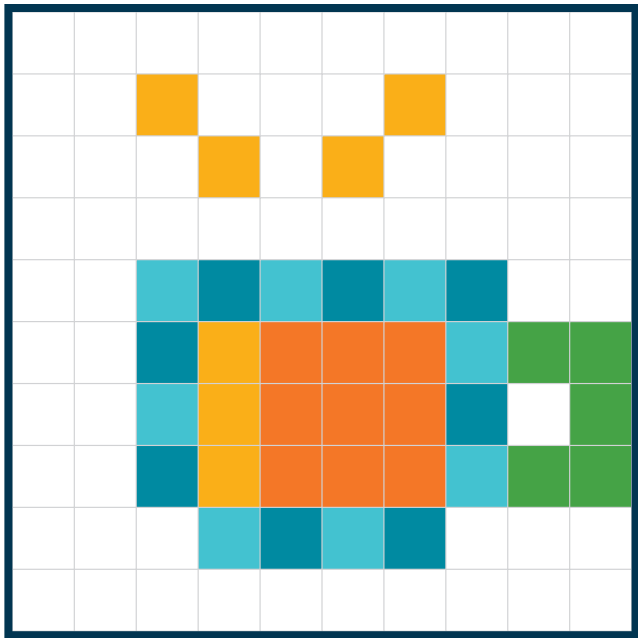
torch



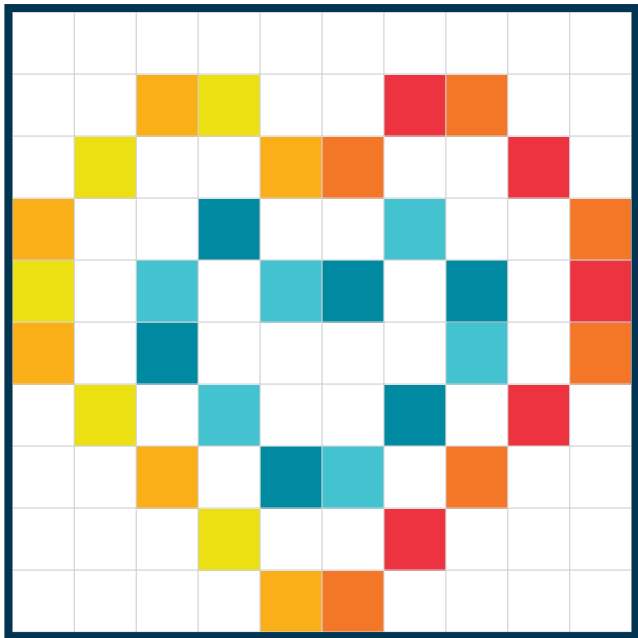
pretty tulips



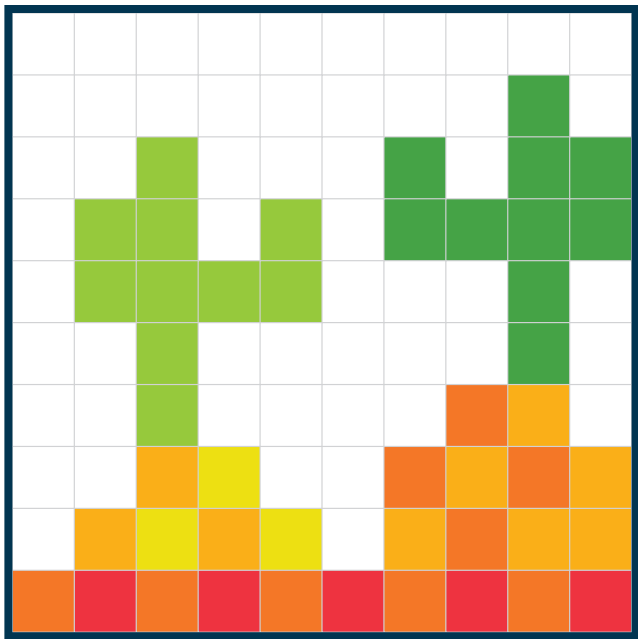
bumblebee



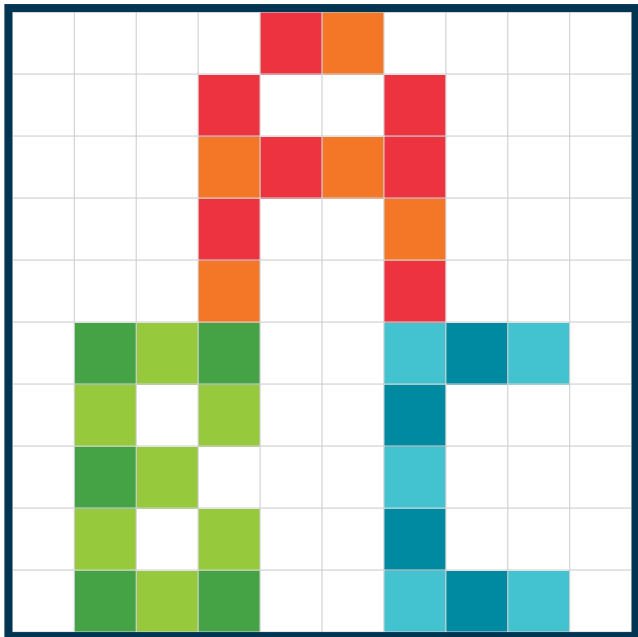
hot tea



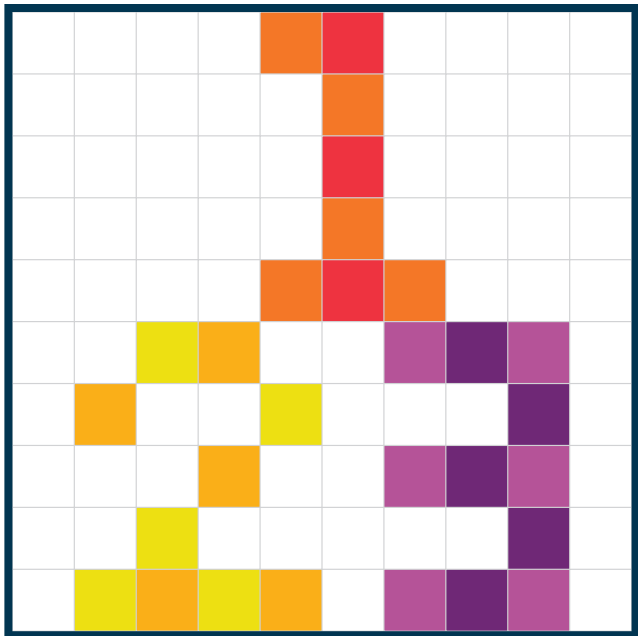
hearts



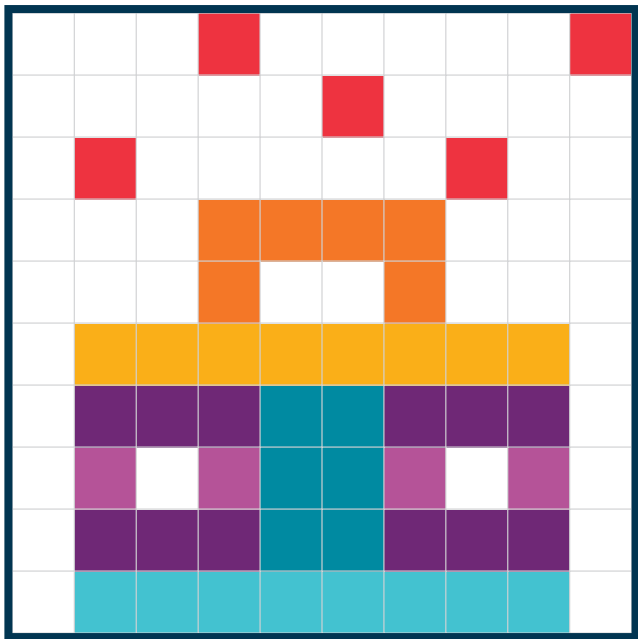
cactus desert



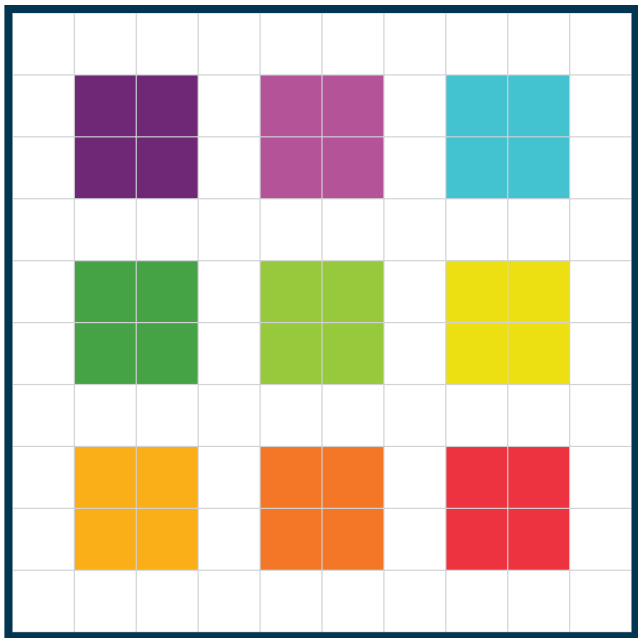
A, B, C



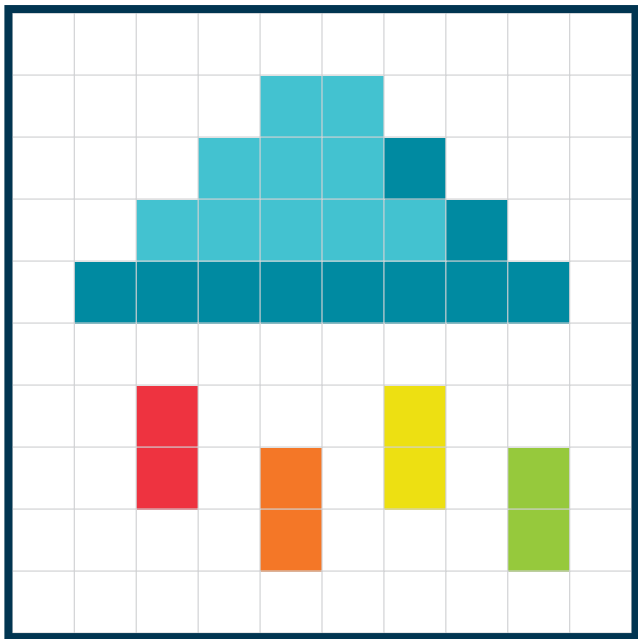
1, 2, 3



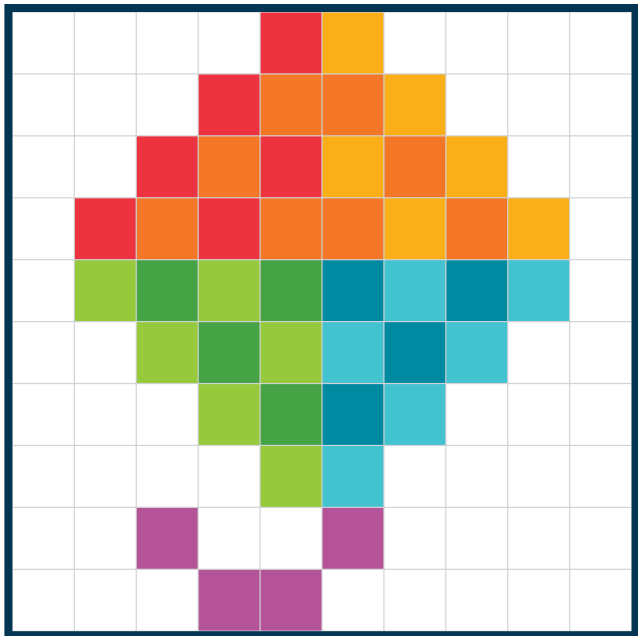
radio



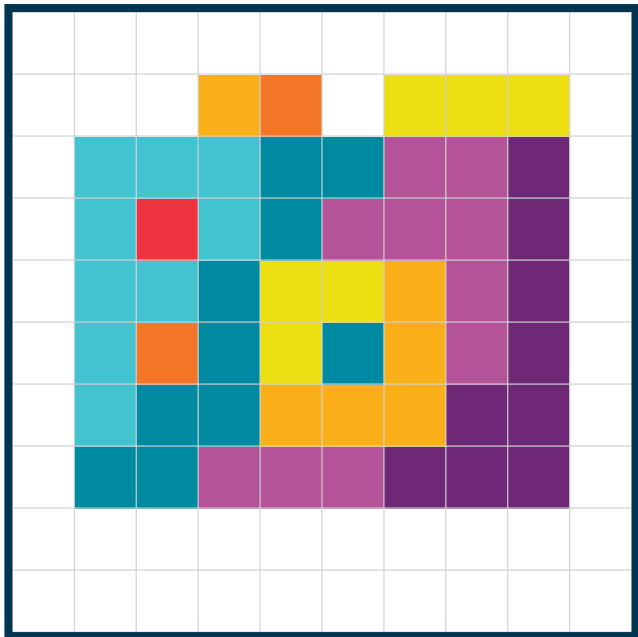
colorful squares



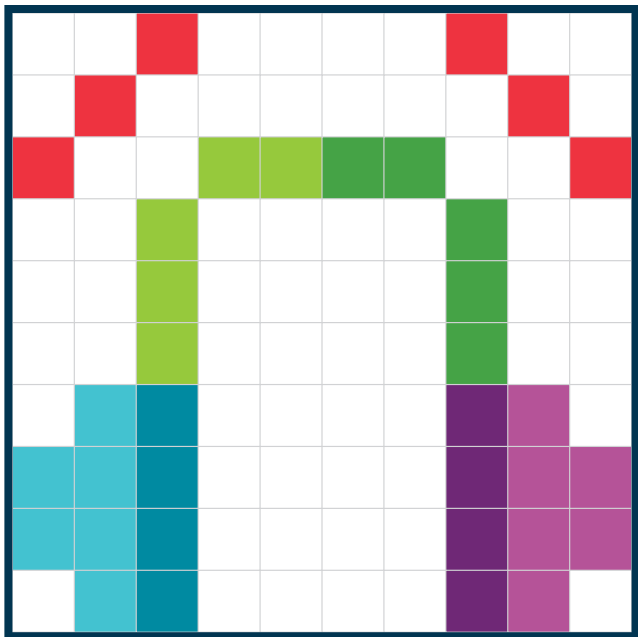
colorful rain



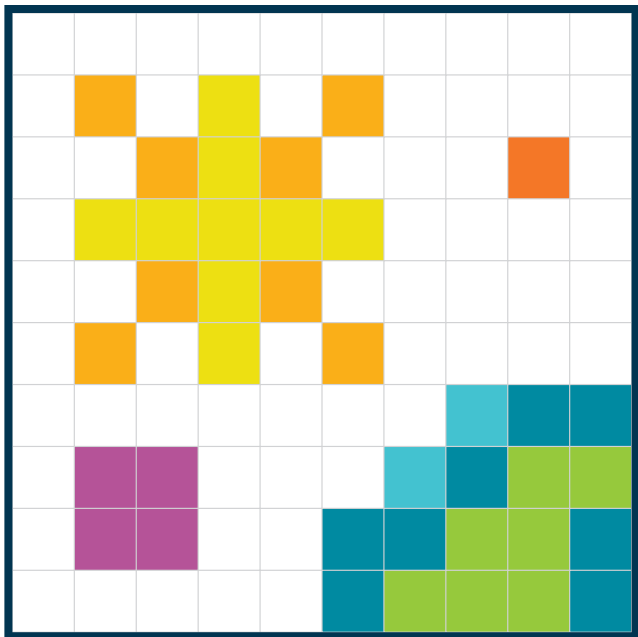
kite



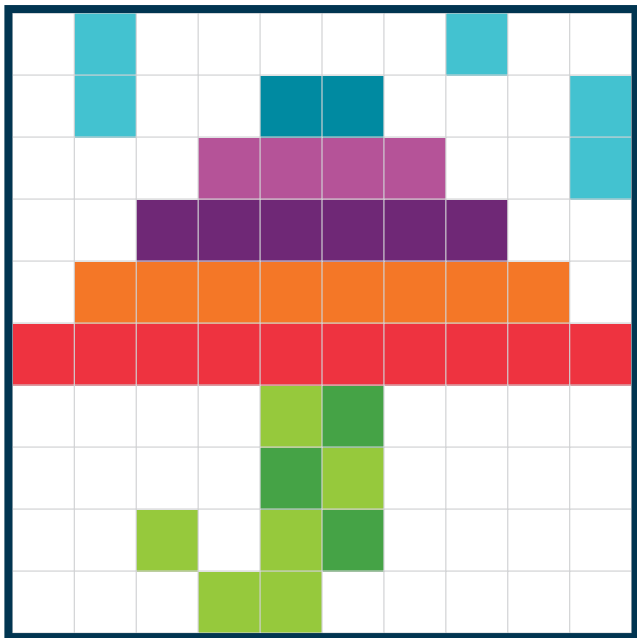
camera



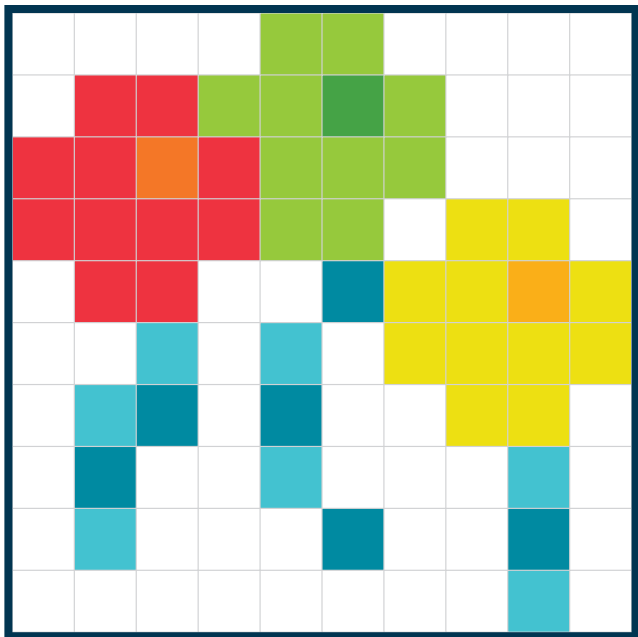
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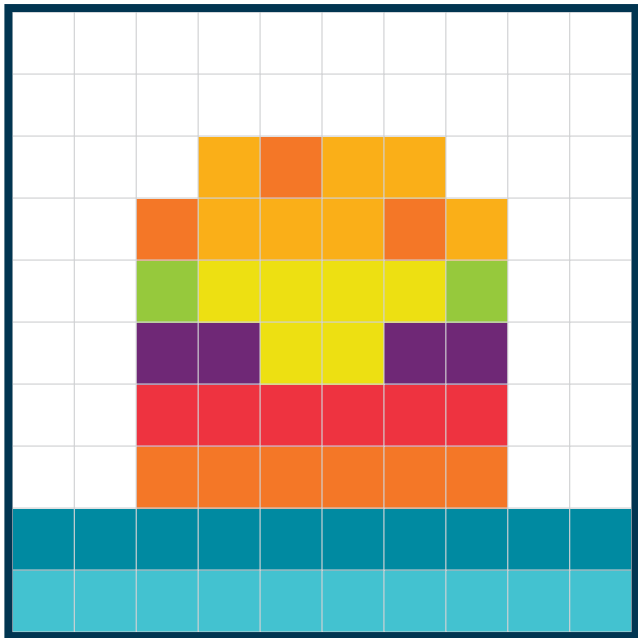
outer space



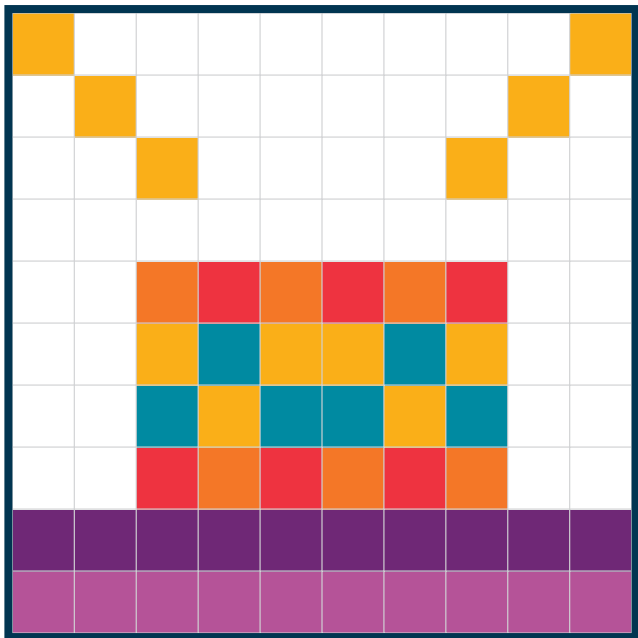
umbrella



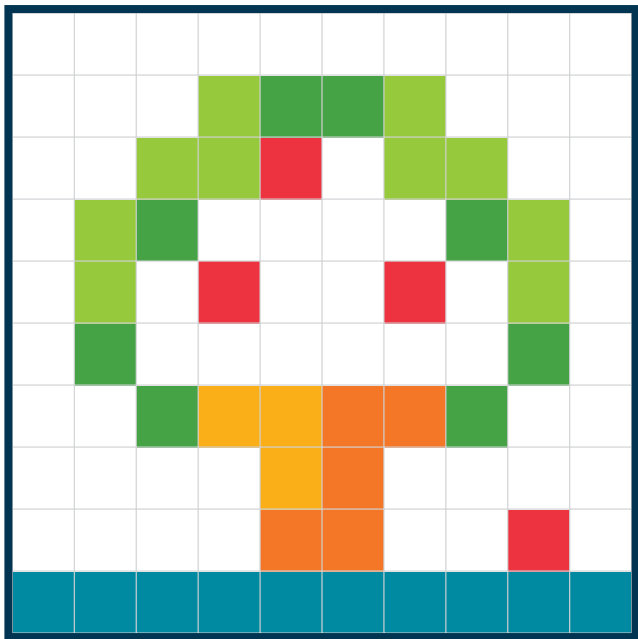
party balloons



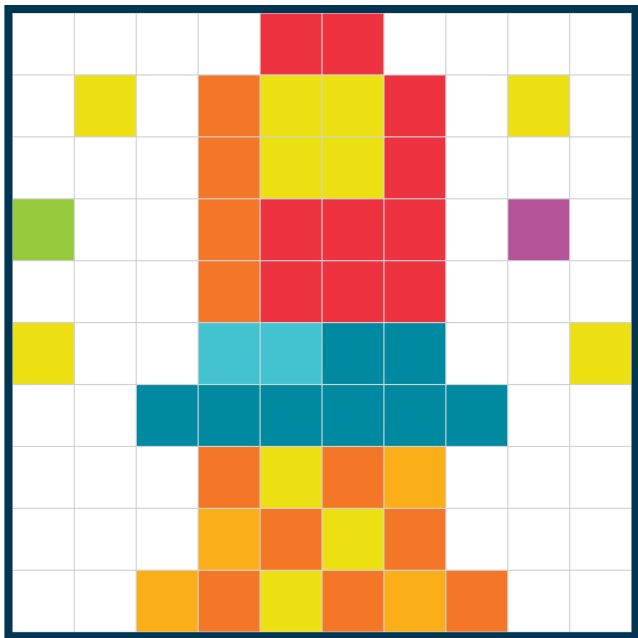
cheeseburger



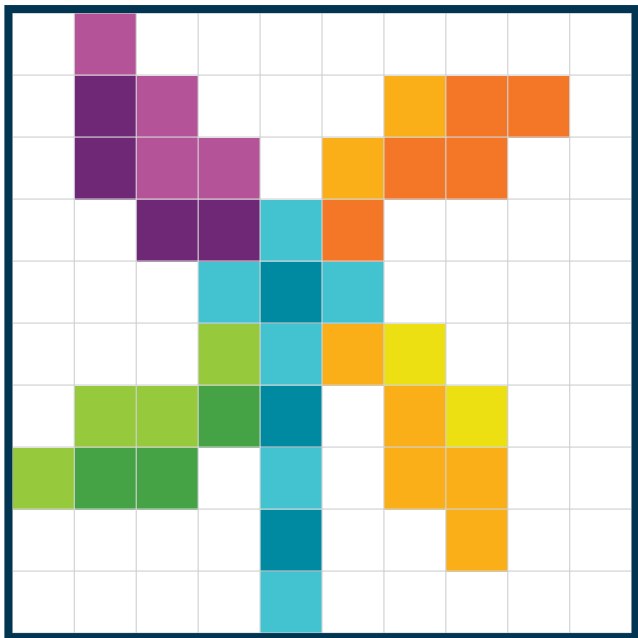
drum



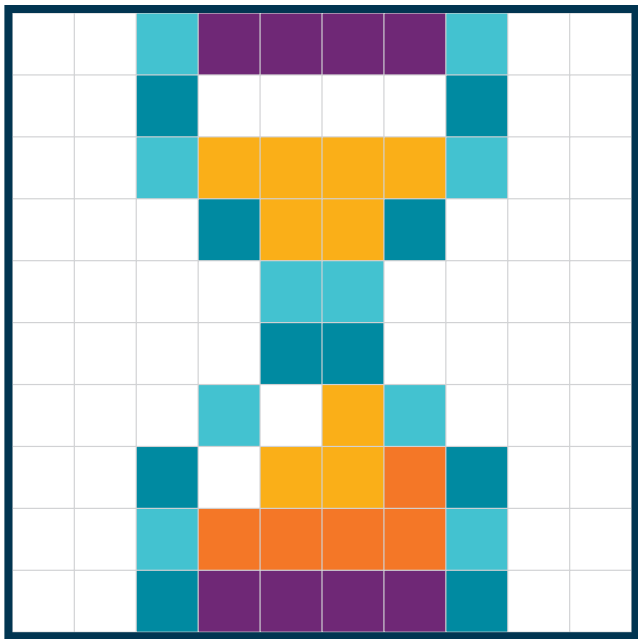
apple tree



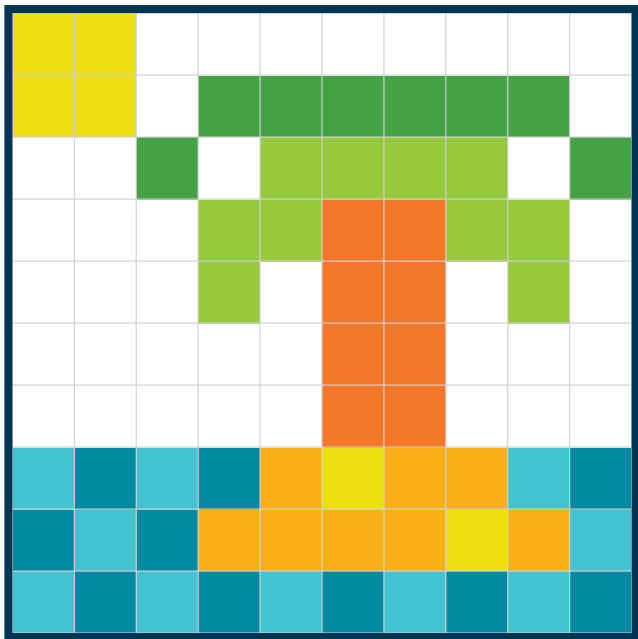
rocket



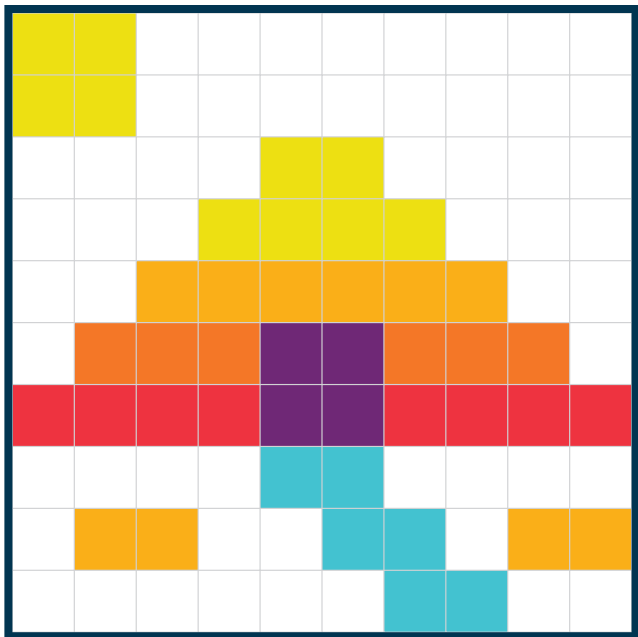
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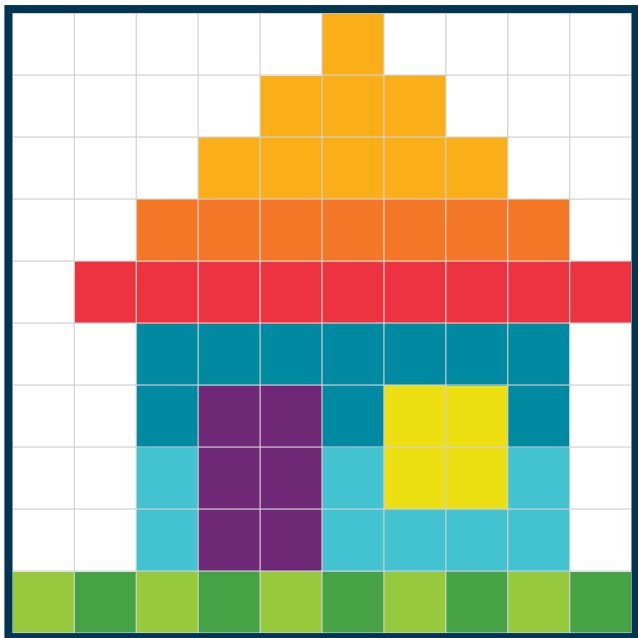
hour glass



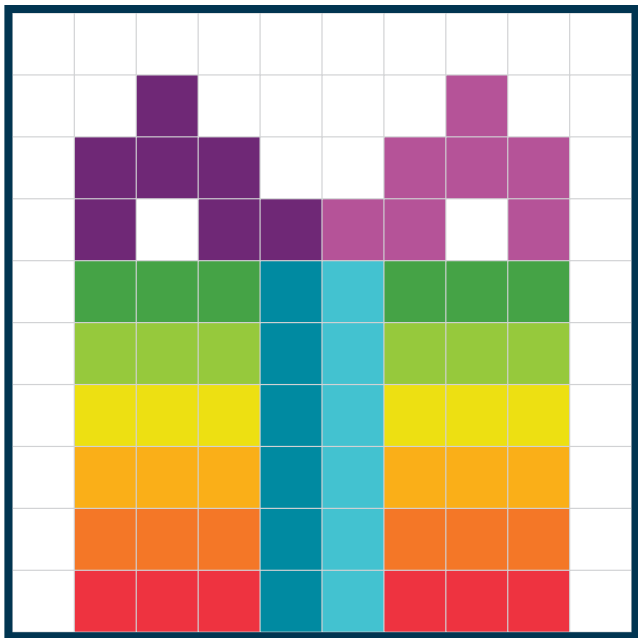
tropical island



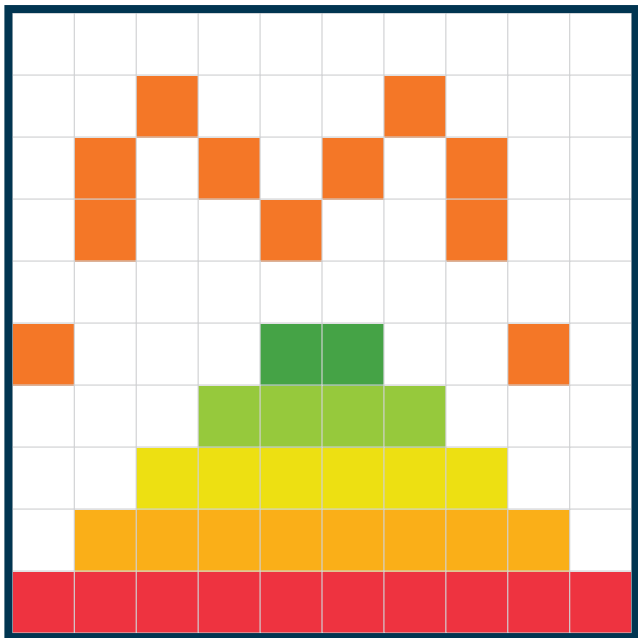
pyramid



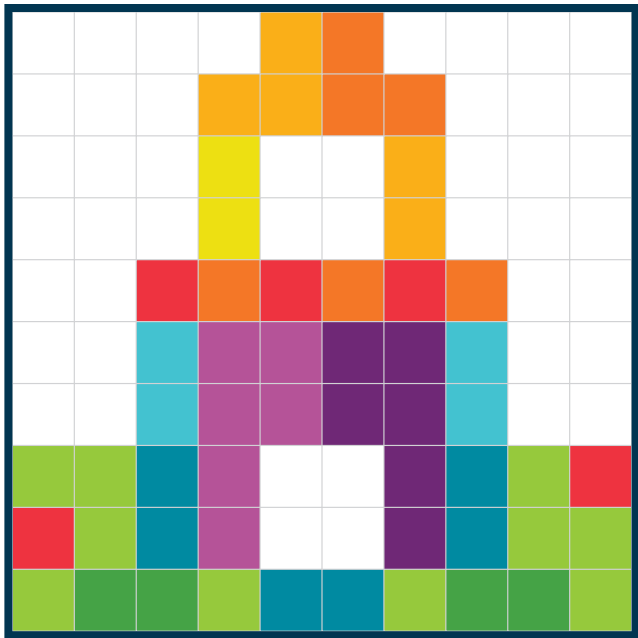
house



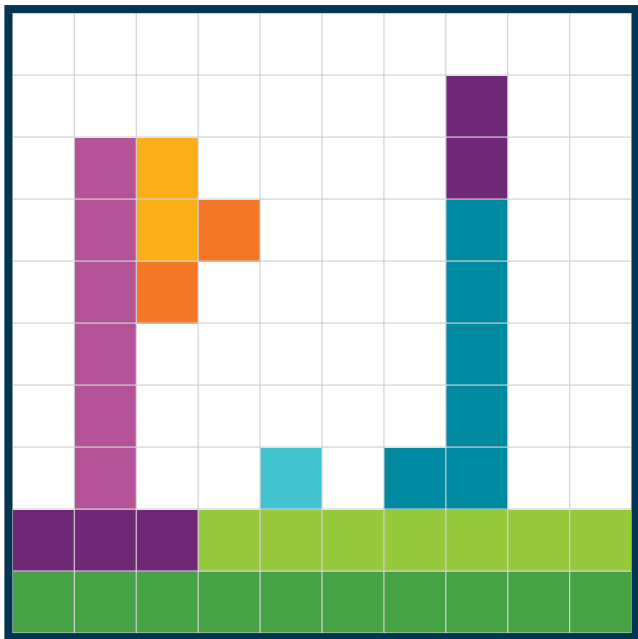
present



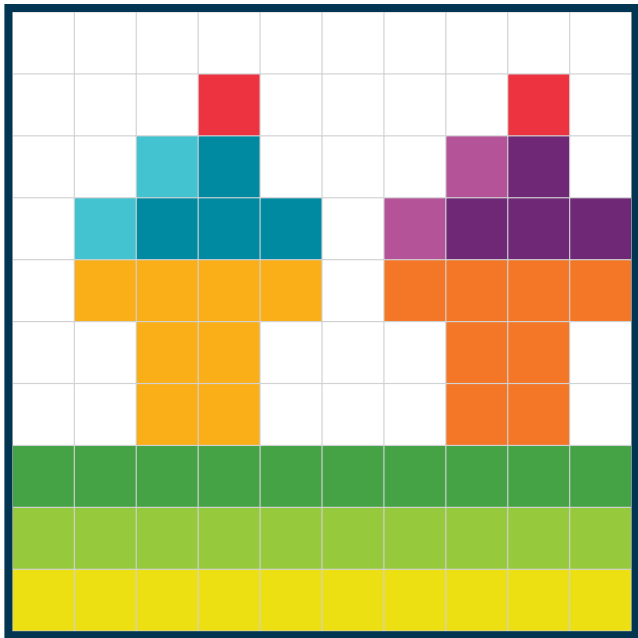
volcano



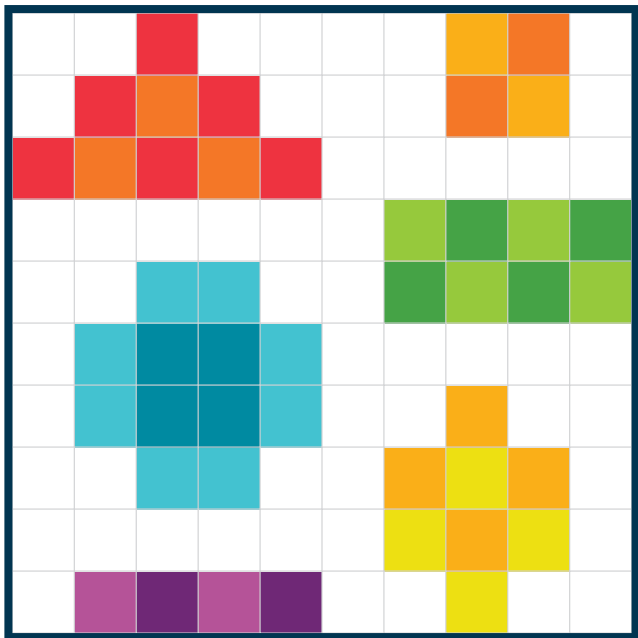
tall building



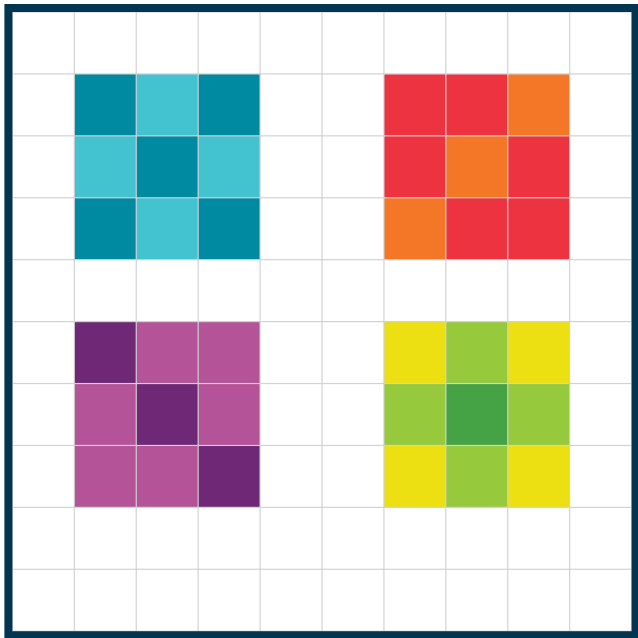
golf



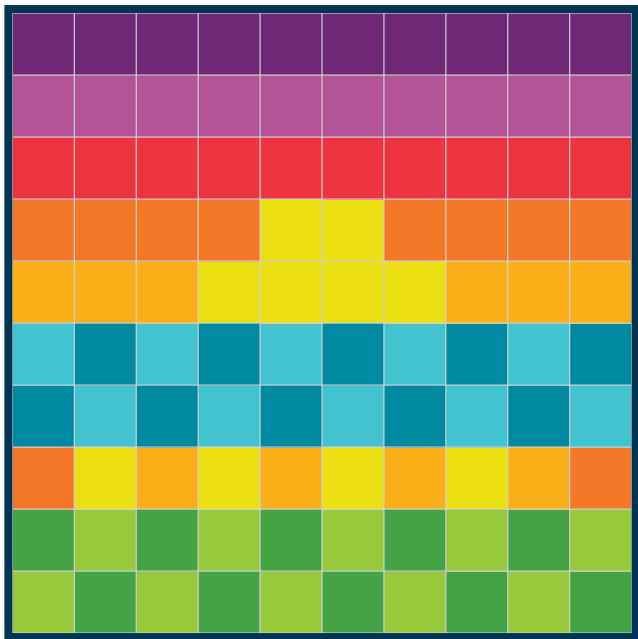
ice cream cones



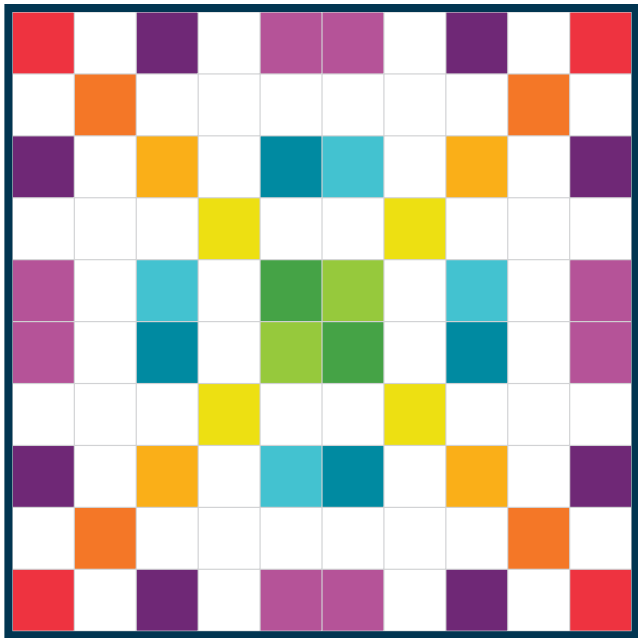
shapes



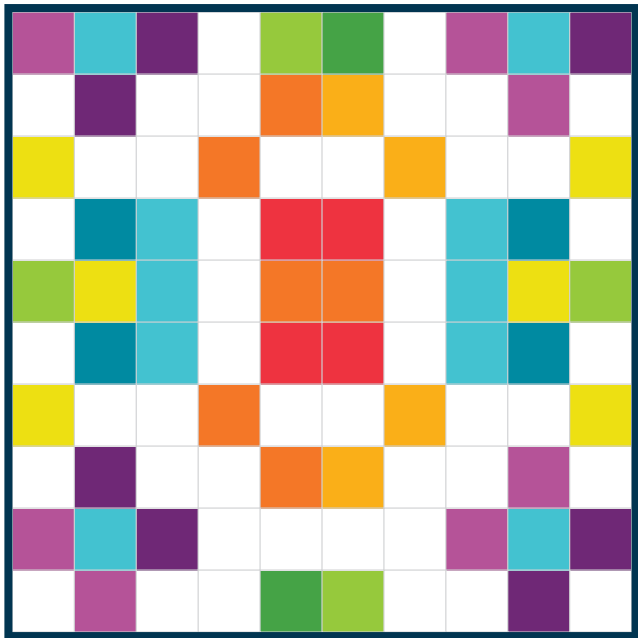
mini quilts



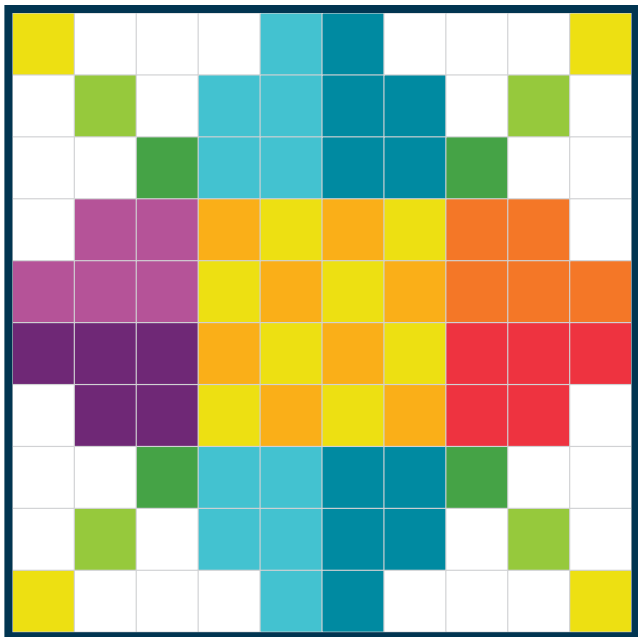
ocean sunset



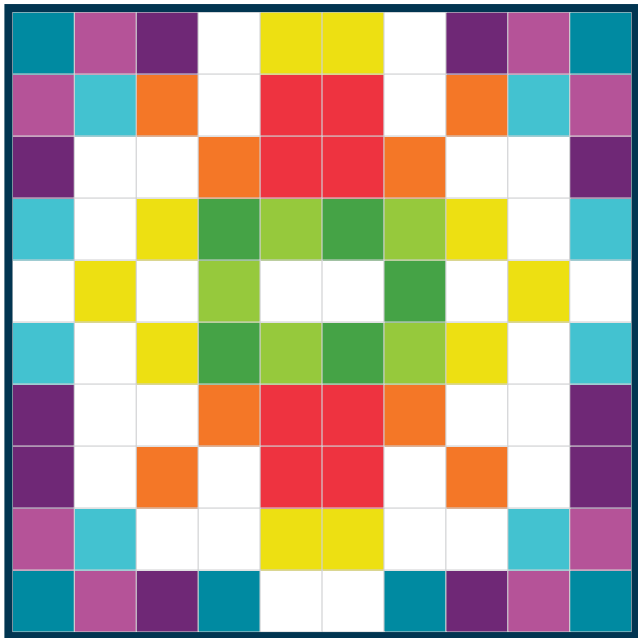
flag pattern



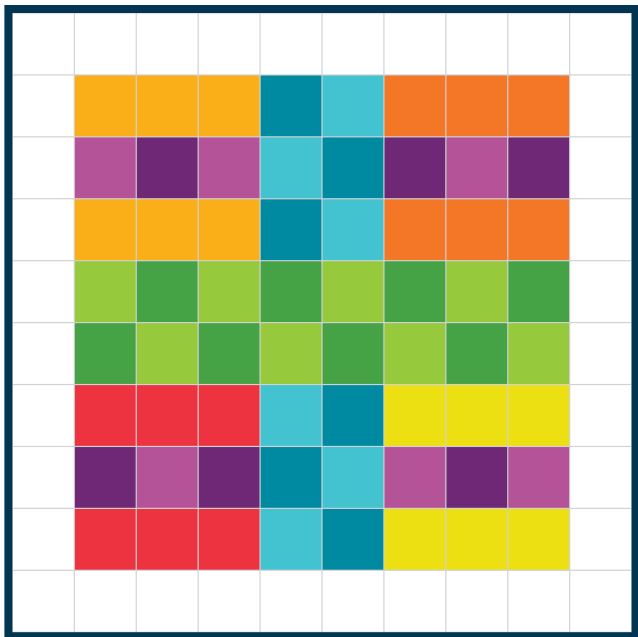
pixel perfect



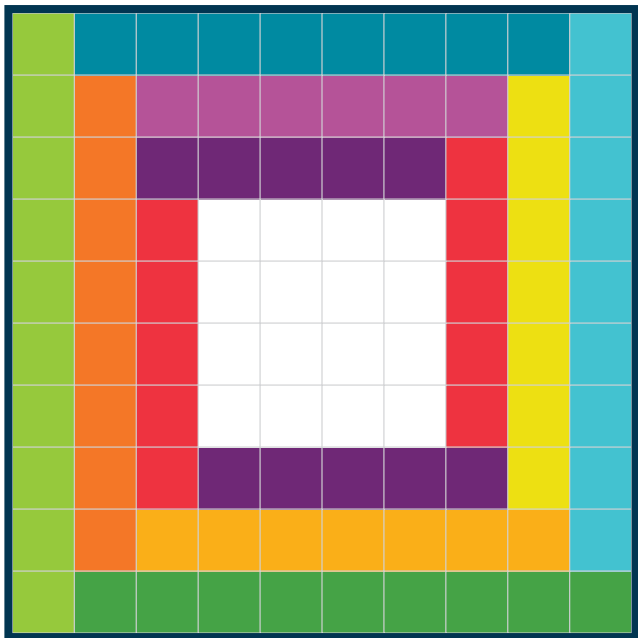
tile pattern



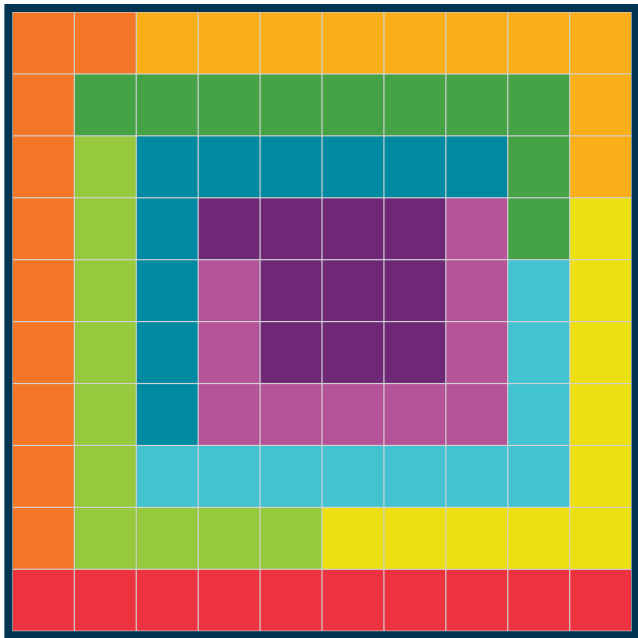
quilt pattern



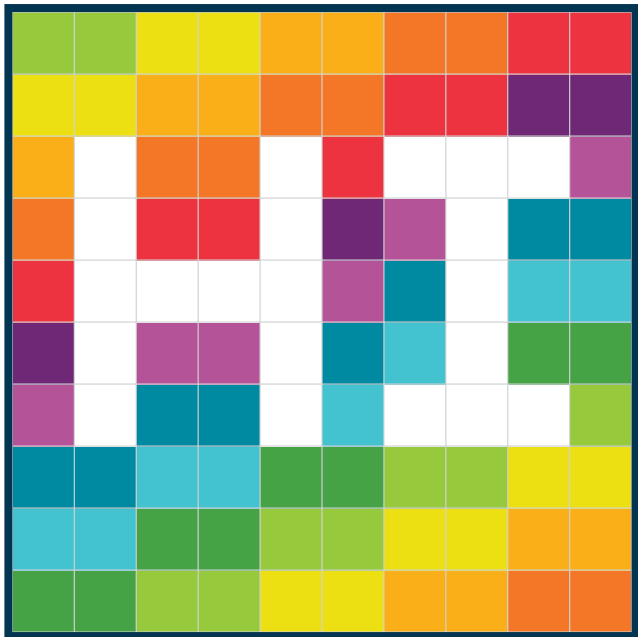
patchwork



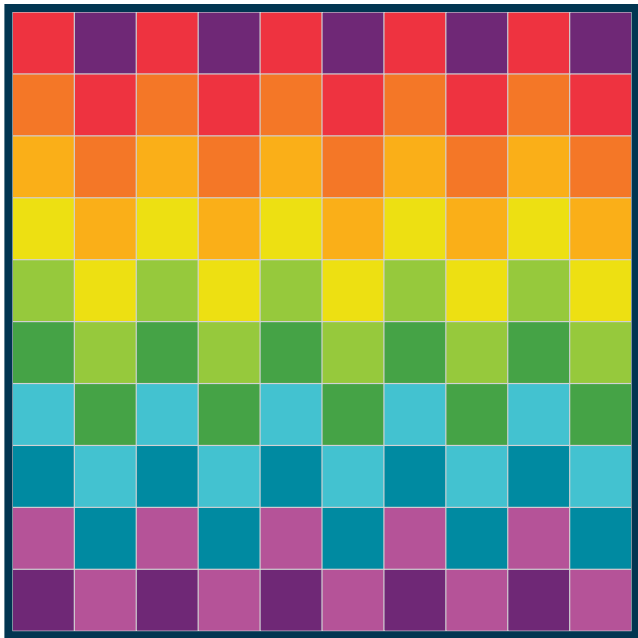
blanket pattern



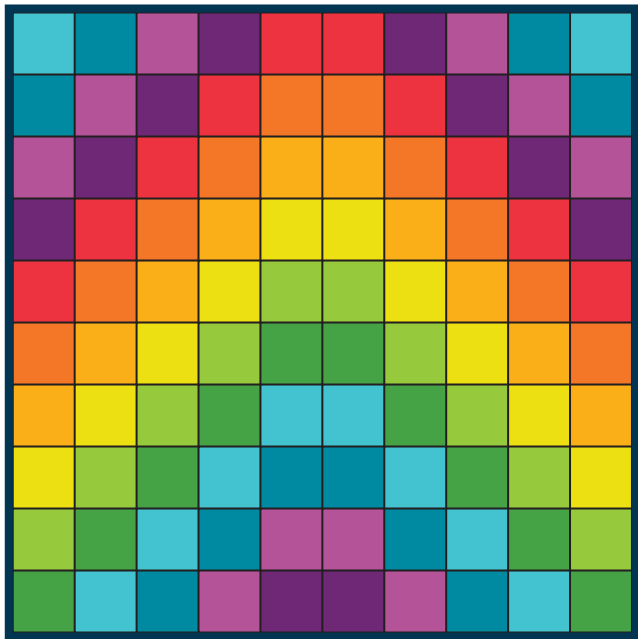
swirl pattern



say "hi!"



ROY G BIV



mountain pattern

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

SEQUENCE REFERENCE PAGE

We would love to hear about your experience and if you've thought of any creative ways to use **Counting & Mosaics**. Let us know and say hi at chuckleandroar.com, or on Instagram, TikTok, and Facebook @[chuckleandroar](https://www.facebook.com/chuckleandroar).



Questions or Comments?
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