

Snowflakes



Image credit: 'Ice Queen' by Nathan Myhrvold



'Yellowknife Flurry' by Nathan Myhrvold



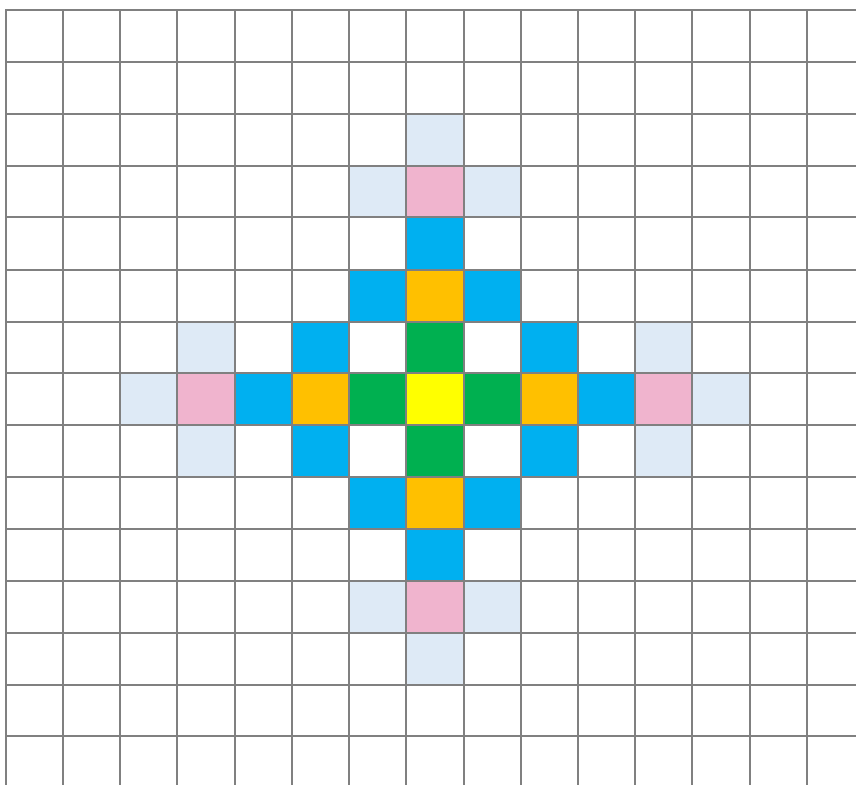
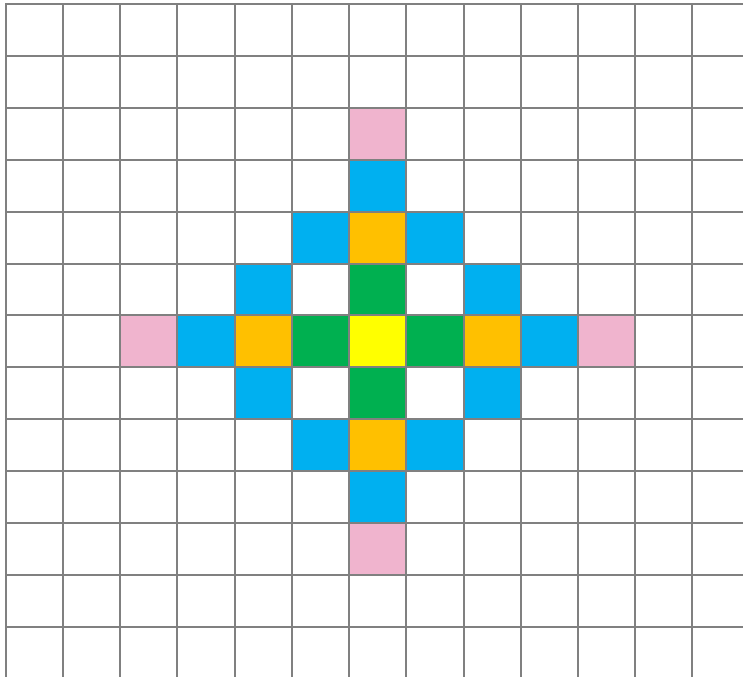
'No Two Alike' by Nathan Myhrvold

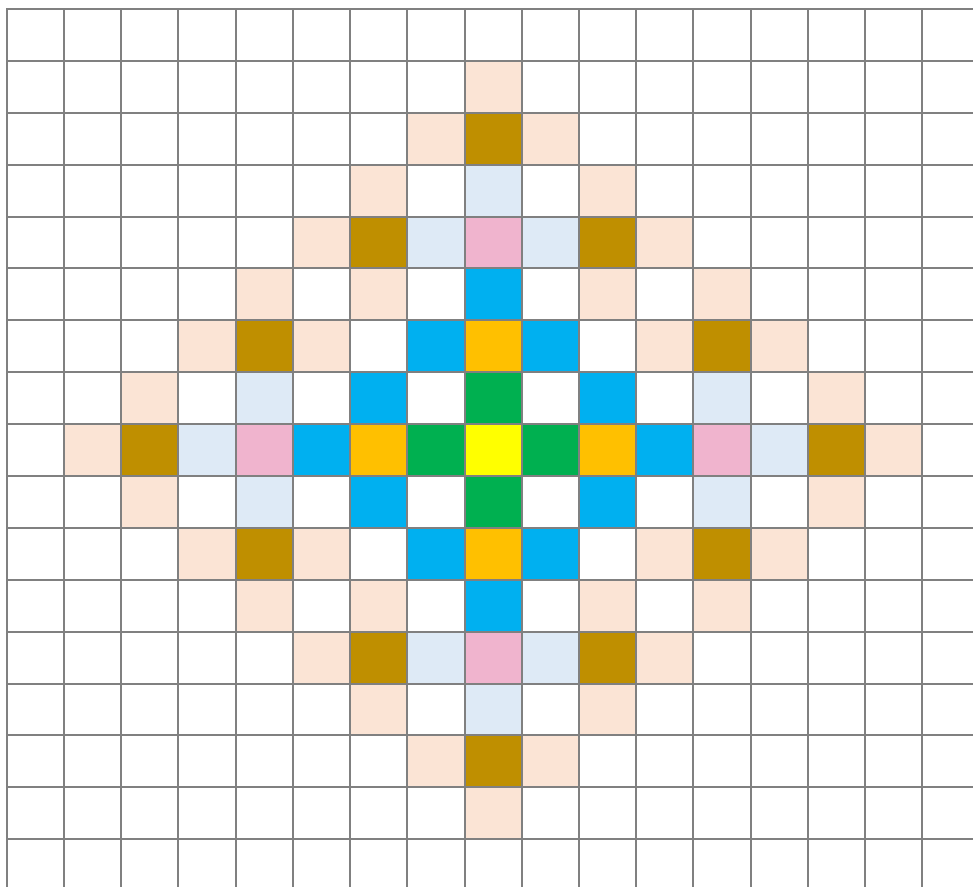
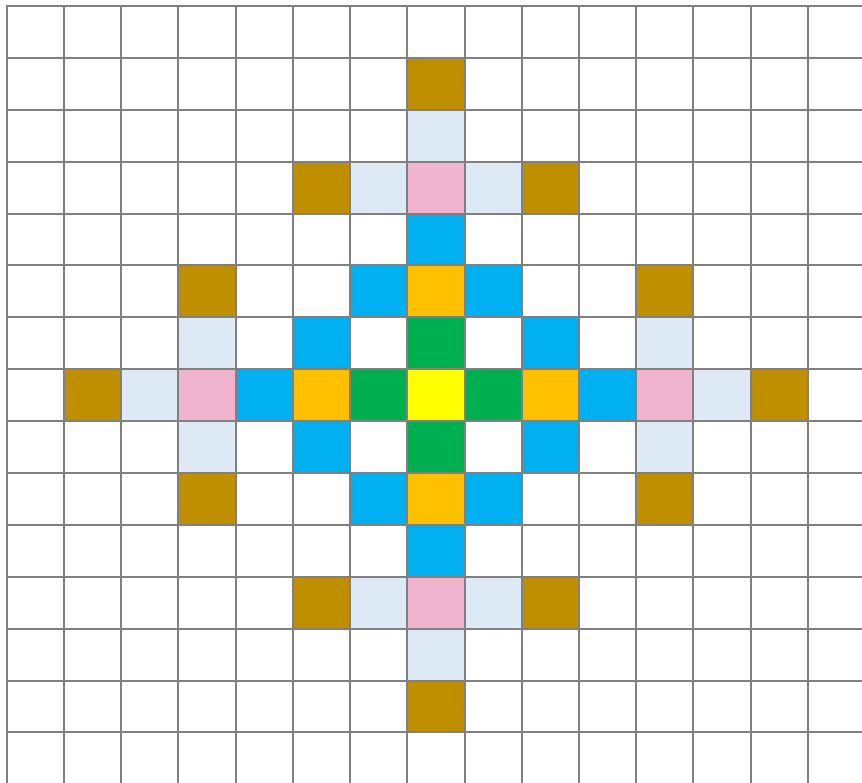
Snowflake patterns

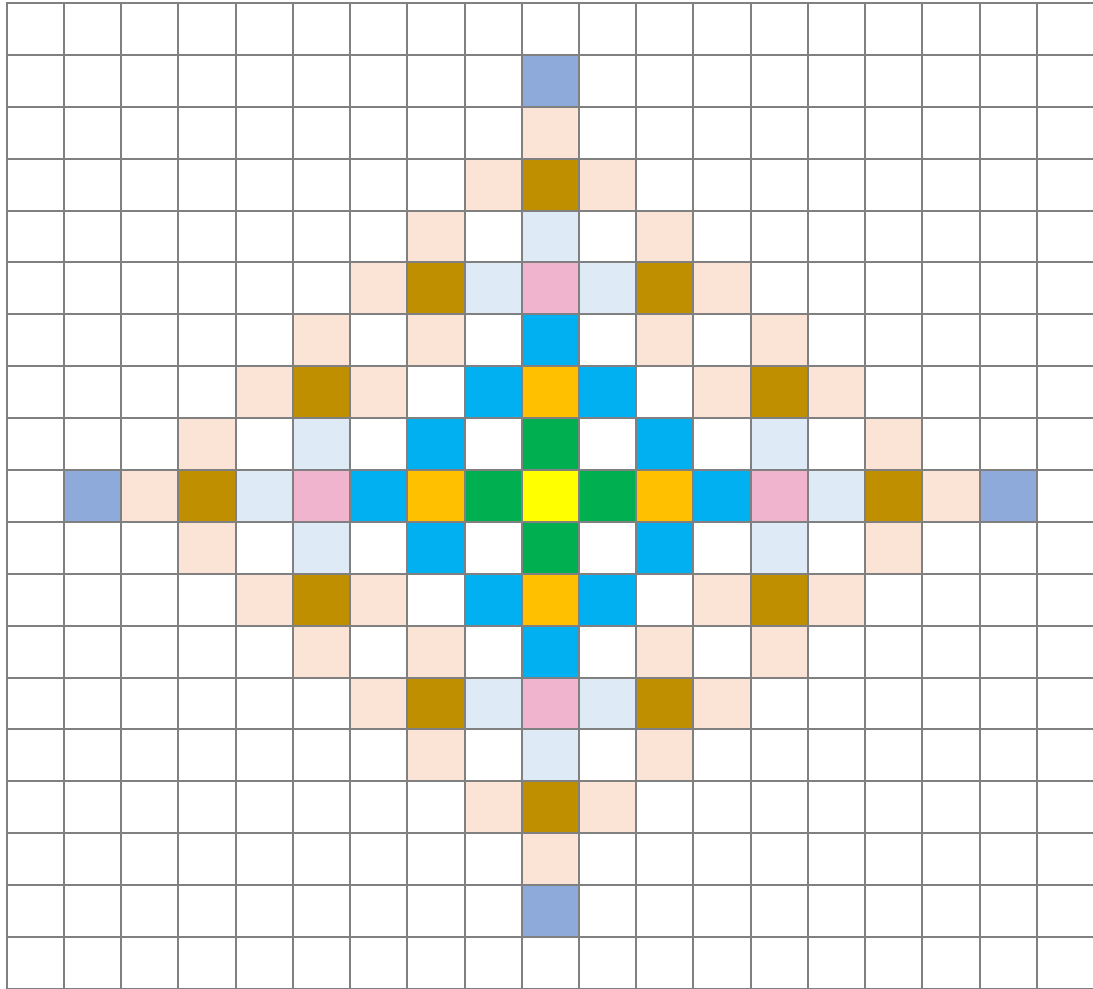
Sequence

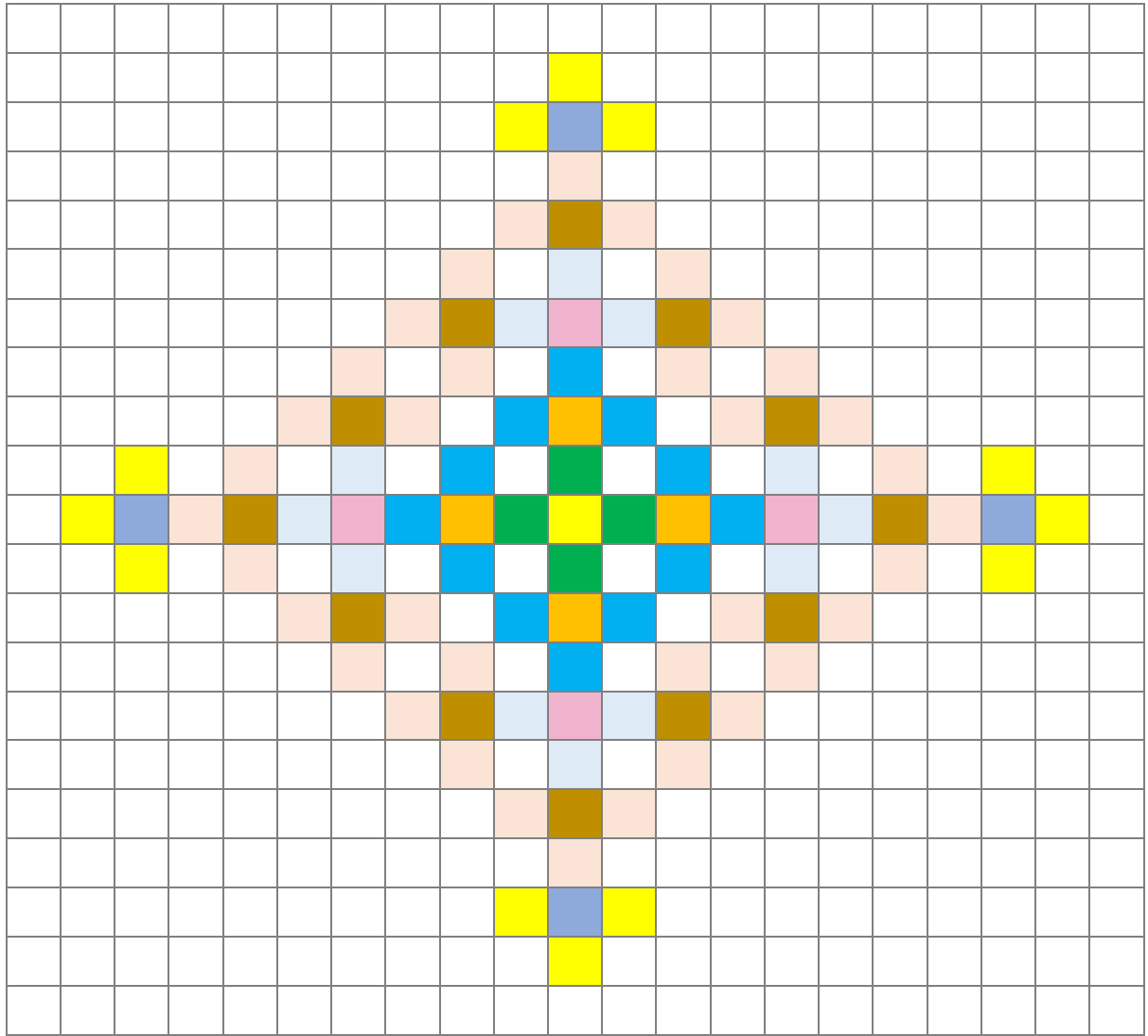
1, 4, 4, 12, 4, 12, 12, 36, 4, 12, 12, 36, 12, 36....

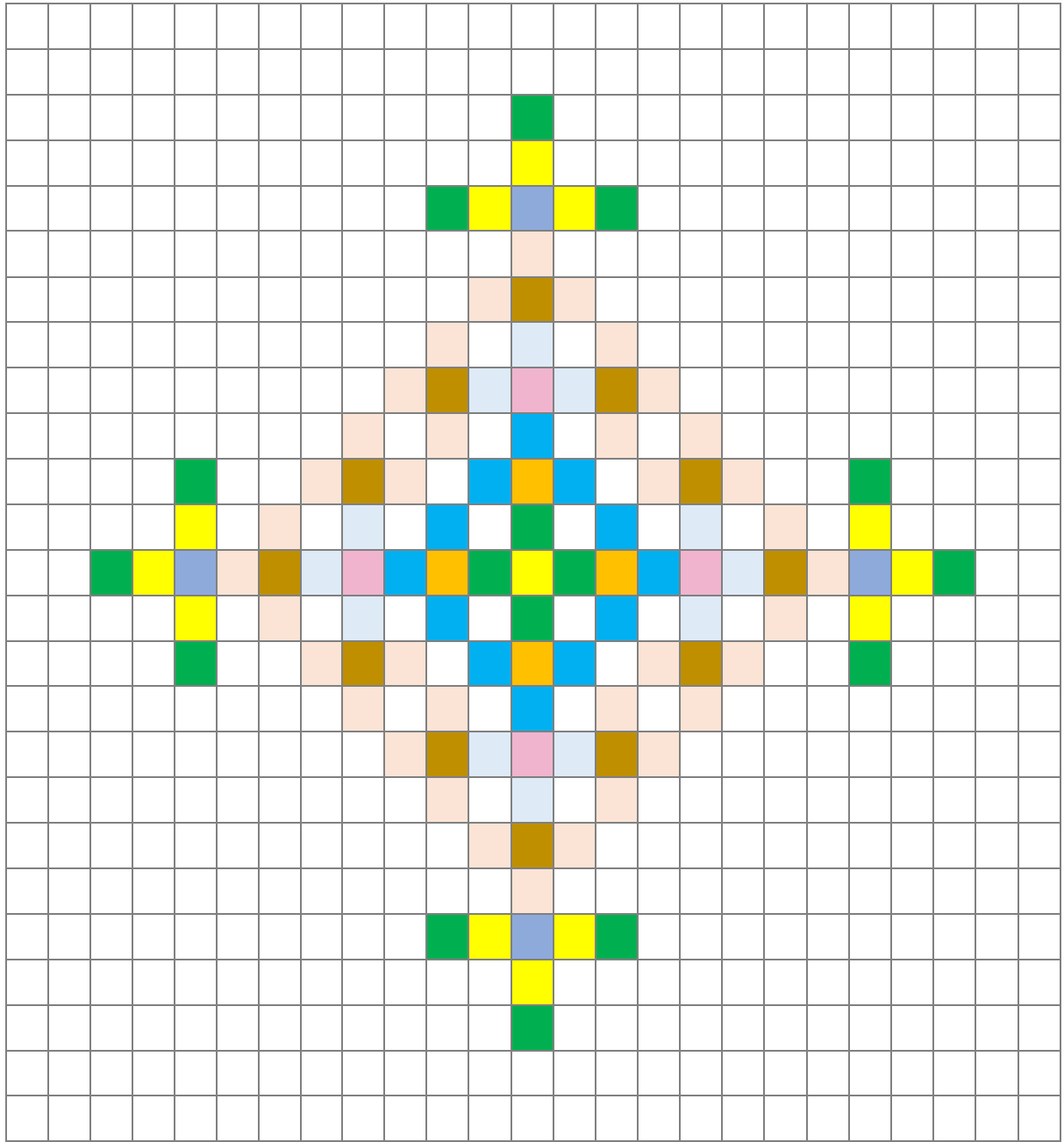
(the sequence to show children in the group activity is at the bottom)

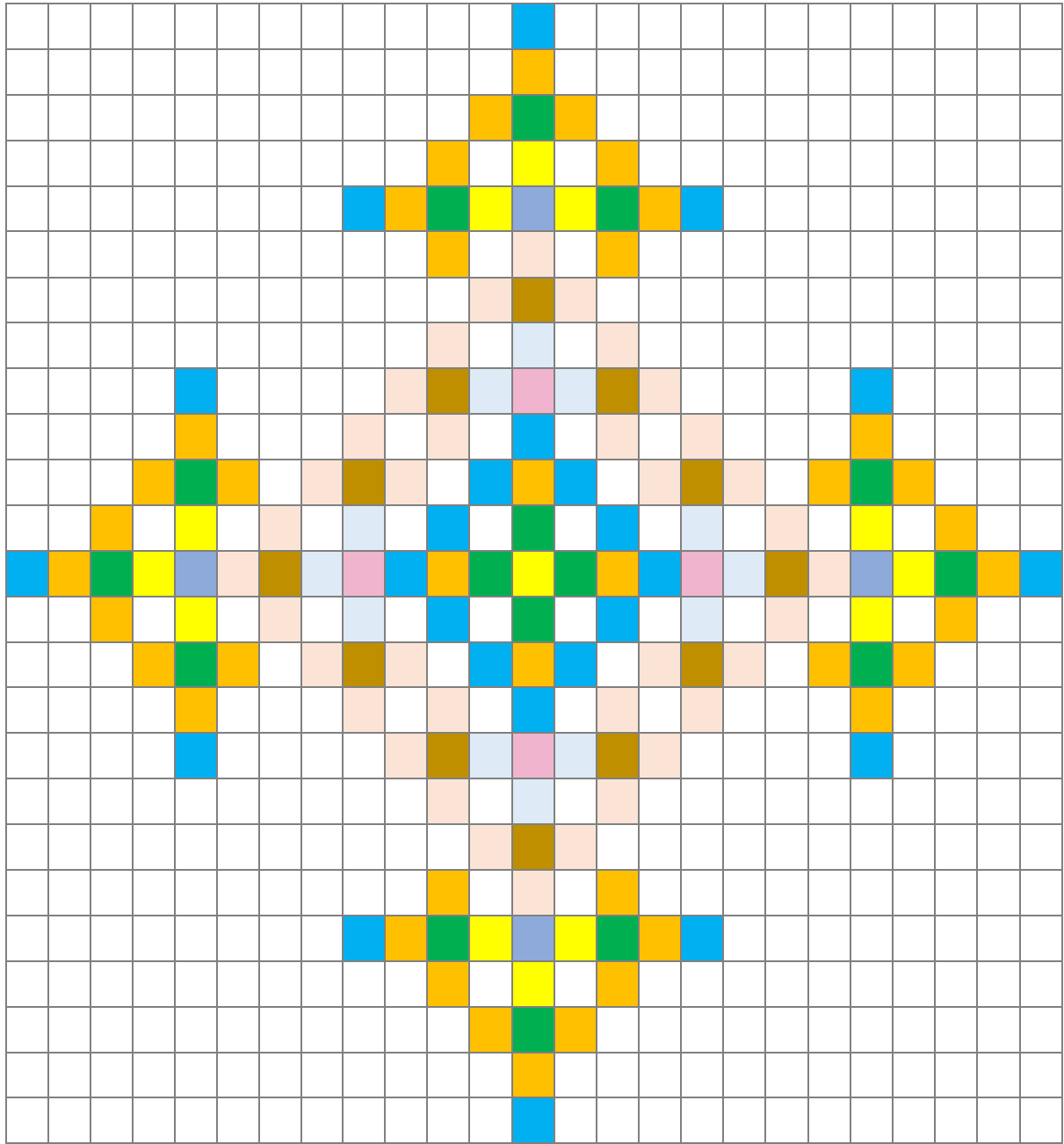












Sequence

1, 4, 4, 12, 4, 12, 12, 36, 4, 12, 12, 36, 12, 36....

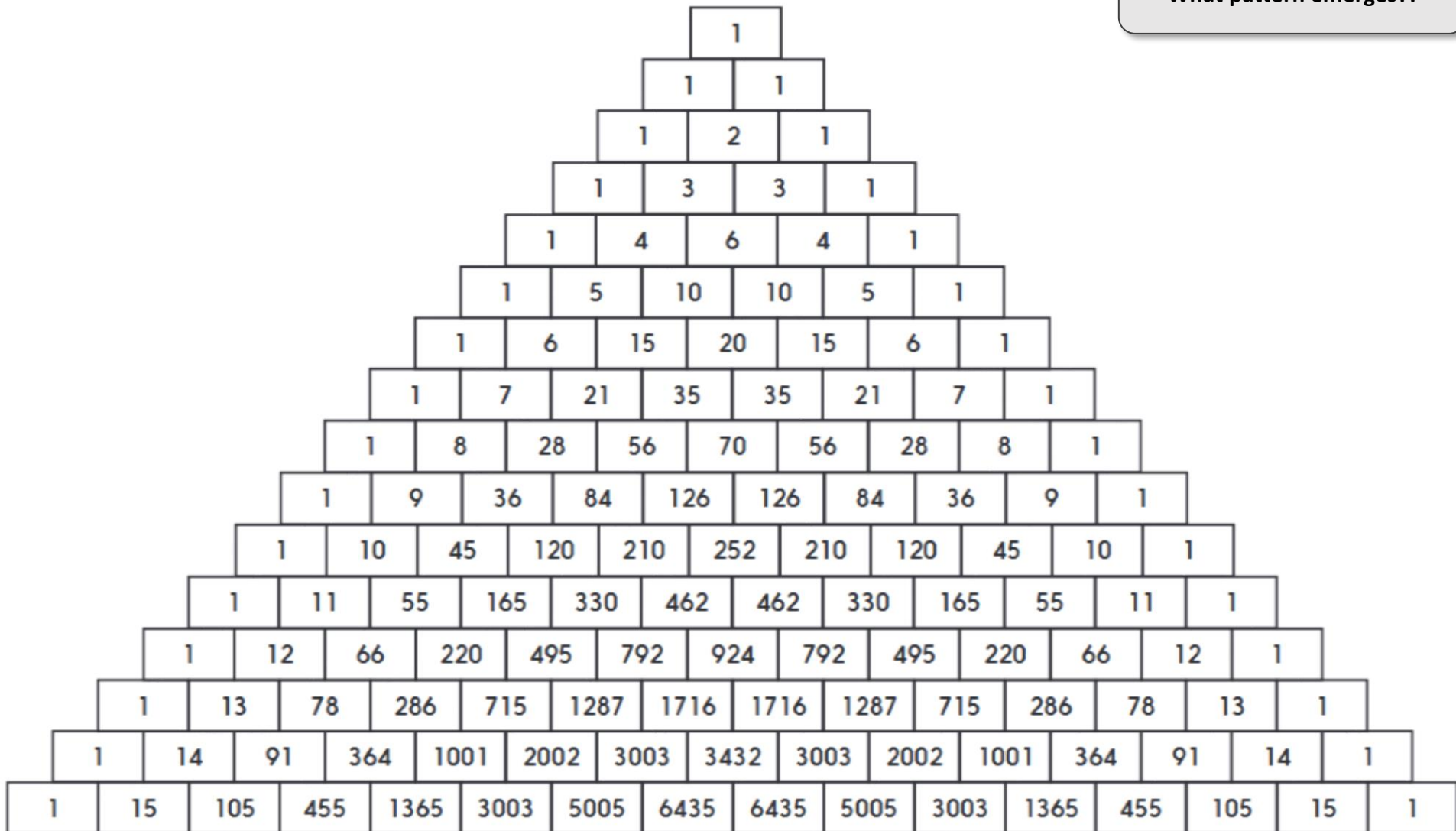
Scroll down for what to display for children as they colour.

You will colour like this...

1 st colour	1 square
2 nd colour	4 squares
3 rd colour	4 squares
4 th colour	12 squares
5 th colour	4 squares
6 th colour	12 squares
7 th colour	12 squares
8 th colour	36 squares
9 th colour	4 squares

Pascal's triangle

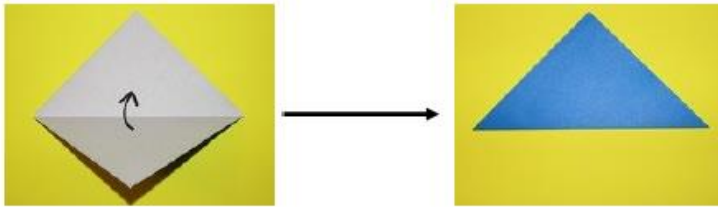
Shade the even numbers...
What pattern emerges?!



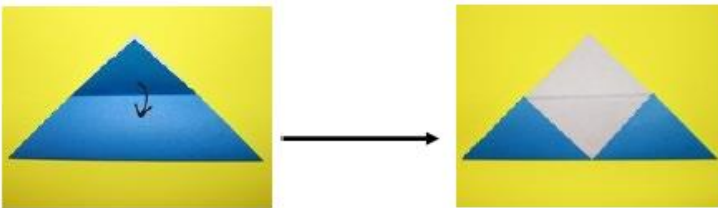
How to make an envelope

You will need: a square piece of paper

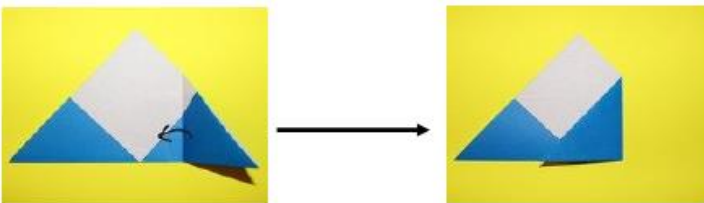
1. Fold the bottom half to the top half to make a triangle.



2. Fold the top corner to the bottom edge.



3. Fold in one-third of the right side of the triangle.



4. Fold in left side of triangle and then fold that flap's corner back out.



5. Open the little flap and squash it to form a 'diamond' pocket.



6. Fold down the top and tuck it into the diamond-shaped pocket.



1 to 50 number grids

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

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

1 to 100 number grid

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

Day 3 Place value grids

$$8 \times 10 \times 10 = \underline{\quad}$$

100s	10s	1s

$$3 \times 10 \times 10 \div 10 \times 10 = \underline{\quad}$$

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$$90 \times 10 \times 10 \div 10 = \underline{\quad}$$

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$$7 \times 10 \times 10 \div 100 = \underline{\quad}$$

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$$60 \div 10 \times 100 = \underline{\quad}$$

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$$5 \times 100 \div 10 = \underline{\quad}$$

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Highways and Byways by Paul Klee

Highway and Byways, 1929 by Paul Klee

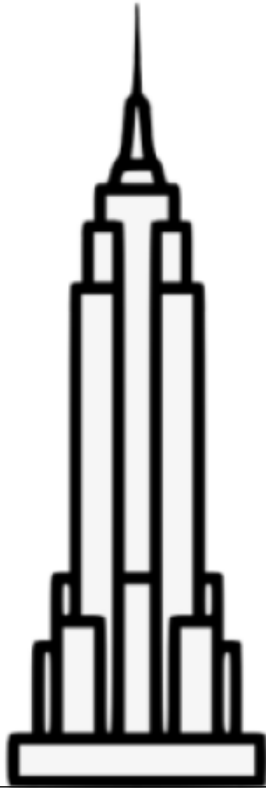


1 to 100 grid

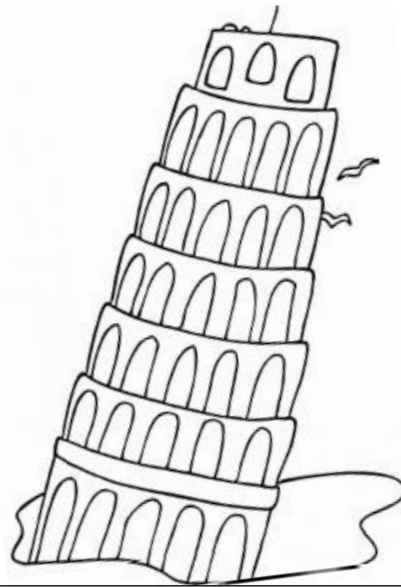
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31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Three towers to colour

Empire State Building
381m



Leaning tower of Pisa
57m



Burj Khalifa 830m

