

MY PAPER LOOM

Today you will draw your own paper weaving pattern!

Ages 7+ [Ages 5+ will need help needed with reading).

You will need: This paper printout, 2 crayons

Color the grid below:



| | | |
|-----|------|--|
| A = | BLUE | |
| B = | RED | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A | B | A | B | A | B | A | B | A | B |
| B | A | B | A | B | A | B | A | B | A |
| A | B | A | B | A | B | A | B | A | B |
| B | A | B | A | B | A | B | A | B | A |
| A | B | A | B | A | B | A | B | A | B |
| B | A | B | A | B | A | B | A | B | A |
| A | B | A | B | A | B | A | B | A | B |
| B | A | B | A | B | A | B | A | B | A |
| A | B | A | B | A | B | A | B | A | B |
| B | A | B | A | B | A | B | A | B | A |

You just created simple weave! Hold paper back and look! You are practiced counting, pattern recognition (AB, BA), and seeing how straight lines and repeats create structure - just like real weaving!

Try this: Count how many times you used color A and Color B.



Do you see any pattern?

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OVER UNDER CODE BREAKER

Turn secret codes into woven patterns.
Ages 7+ (can be completed by 6+ with adult help)
You'll need: Paper, pencil, 2 crayons

STEP 1 – YOUR KEY

A = color the box

B = leave the box blank

STEP 2 – YOUR GRID

Color inside this grid:

Row 1 code: **A B A B A B A B**; Color only the **A** boxes.

Row 2 code: **B A B A B A B A**; Color only the **A** boxes.

Row 3 code: Make your own code using A and B, then color it in.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | B | A | B | A | B | A | B |
| B | A | B | A | B | A | B | A |
| | | | | | | | |

STEP 3: MAKE YOUR OWN KEY AND CODE

A = _____ (choose a color)

B = _____ (choose another color)

STEP 4: MAKE YOUR OWN CODE USING YOUR OWN KEY

Row 1 code: _____

Row 2 code: _____

Row 3 code: _____

Row 4 code: _____

Using the code above, color the grid below:

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

You just used **algorithms**, **symbols**, and **debugging** (fixing mistakes) to create designs like how computers follow patterns of 1s and 0s.

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