



PROJECT DESCRIPTION

March 14th is International Pi Day! In honor of this mystical symbol—and in tandem with the virtual exhibition, [Imagining Data](#)—take a deep dive into the complex, irrational, and beautiful world of pi. Turn this abstract notion into a visible form with a little bit of color coding and a little bit of math!

RECOMMENDED AGE/SKILL LEVEL

Recommended for ages 5 and up with adult supervision.

MATERIALS

- Pencil
- Eraser
- Ruler
- Scissors
- Paper
- Markers or paint
- [Digits of pi](#)



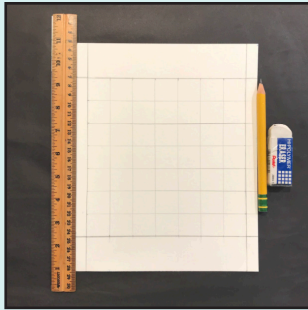
INSTRUCTIONS

- Using a pencil and ruler, make a square graph equal in length and width.
 - *EXAMPLE:* 5in. x 5in., 6in. x 6in., etc.
- Refer to the [resource](#) listed and select a number of digits of pi equal to the number of squares in the graph.
 - For example, a 5in. x 5in. graph will contain 25 squares.
 - In this case, 25 digits of pi would be necessary.
 - A larger number of digits will result in a more challenging project.

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IMAGINING PI

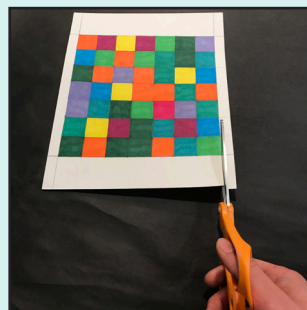
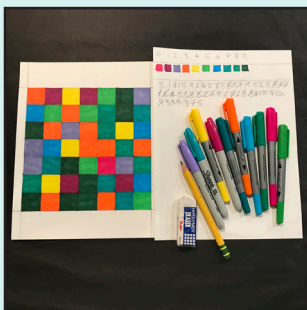
- Either on the back of your sheet or on a separate piece of paper, create a key to match each digit from 0-9 to a color of your choice.
 - EXAMPLE: 1=red, 2=brown, 3=orange, etc.



- *OPTIONAL:* On the same page as the color key, write down the digits of pi you will be using. This might make it easier to remember and keep track of the pattern.
- Choose an order in which to fill the squares.
 - This example begins from the top-left corner and moves left-to-right, top-to-bottom.
- Color in each square according to its corresponding color and digit until you have filled your entire graph.
- When the graph has been completely filled, cut off the empty space around it.
- Congratulations, you now have just created a physical representation of pi!

VISUALIZE BEYOND

- Use a lazy susan or a drafting compass to create a [Jill Baroff](#) inspired creation where each digit corresponding color is represented by concentric circles.
- Assign each digit to a different color of yarn and weave a wall tapestry on a [homemade loom](#).
- Artist [John Sims](#) quilted an entire series using this concept, demonstrating in just how many ways the process can be interpreted!



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IMAGINING PI

ADDITIONAL RESOURCES

CONNECT SOCIALLY AND LEARN MORE

Facebook & Instagram: @MuseumofCraftandDesign

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