Math flower, polar rose

6 inch (15 cm) hoop, 4.8 × 4.8 in (12.2 × 12.2 cm)



Colors by number: page 2.
Fabric: indigo cotton or linen.

What you need

A 6 inch (15 cm) hoop.

A 9 inch (23 cm) square of indigo cotton or linen.

An embroidery needle, size 7.

10 colors of floss (page 2): one skein of each color (an estimate from the drawing's lines and shapes).

A white pencil, and small scissors.

Onto the fabric

Fabric that lets light through: page 3 on a bright light, the fabric over it; trace with a white pencil.

Other fabric: print page 3 on a sticky wash-away sheet, stick it on, stitch through it and rinse it away.

Or white or yellow carbon paper, colored side down, page 3 on top; trace with a ballpoint and go over a faint line with a white pencil.

Then hoop it, inner ring under, tight as a drum.

How to read it

Floss has six strands: cut 18 inches (45 cm), pull out the number named one at a time, and lay them together.

Start a filling with tiny stitches, a line with a small knot; end under stitches on the back.

Every stitch in pictures: flossfield.com/embroidery/stitches.

New to this: flossfield.com/embroidery/guides/how-to-start.

Stitch in this order

Where a stitch page says otherwise, follow this list.

1. **Satin stitch**
   2 strands, colors 3, 4, 5, 6, 7, 8
   Outer petal drops, middle petals, inner petals



2. **Running stitch**
   3 strands, colors 1, 2
   Echo rows, outer petal rows

Stitch in this order, continued

3. **Stem stitch**, 2 strands, color 9
   Rose curve

4. **French knot**
   two wraps, colors 3, 8, 9, 10
   3 strands: notch knots
   2 strands: heart rim, heart



Take out lines that still show, press face down, finish the hoop or sew a pillow.

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6 inch hoop

A number is a color of the list. Fine lines show which way the stitches lie: do not stitch them.



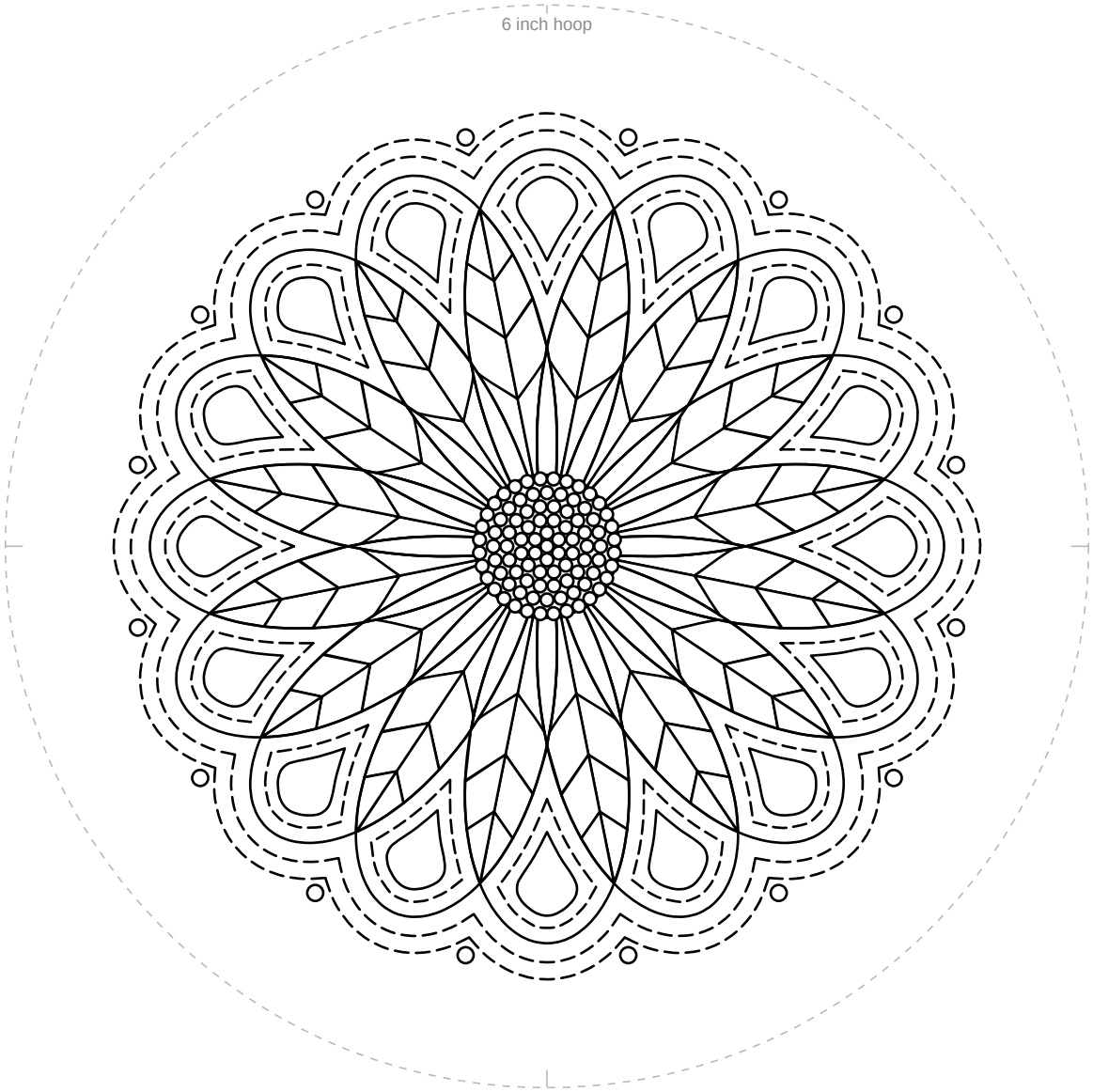
1	DMC 959 Medium Seagreen	**5**	DMC 350 Medium Coral	**9**	DMC 743 Medium Yellow
2	DMC 3608 Very Light Plum	**6**	DMC 351 Coral	**10**	DMC 746 Off White
3	DMC 3607 Light Plum	**7**	DMC 352 Light Coral		
4	DMC 349 Dark Coral	**8**	DMC 3853 Dark Autumn Gold		

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6 inch hoop

Print at 100% and measure the square. Trace the black lines only. The gray ring is the hoop: fold the fabric in four and lay the folds on its ticks.
On the drawing a ring is one French knot: mark a dot; a dashed line is running stitch.



1 in
25.4 mm

Not 1 inch (25.4 mm)? Print again at 100%.

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