Funny germs and a microscope

6 inch (15 cm) hoop, 4 × 4.4 in (10.2 × 11.2 cm)



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

What you need

A 6 inch (15 cm) hoop.

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

Embroidery needles, size 9, and size 3 for 4 to 6 strands.

24 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. **Straight stitch**, 2 strands
   Green fringe, violet fringe



2. **Stem stitch**
   6 strands: arms and legs
   4 strands: pink spikes

3. **Long and short stitch**
   1 strand
   Pillar, foot, arm, lens barrel, nosepiece, tube, draw tube, eyepiece, green germ, coral germ, violet germ, pink germ, aqua germ, yellow germ



4. **Satin stitch**, 2 strands
   Foot band, mirror rim, mirror, stage, stage edge, slide, rings, collar, eyepiece glass, knobs, eyes, pupils, mouths, tongues, pink knobs



5. **Stem stitch**
   3 strands: bench line (color 2), eyepiece rim
   5 strands: mirror bracket

6. **Split stitch**, 1 strand
   Tube shadows

7. **Straight stitch**, 2 strands
   Mirror light, eye highlights



8. **Chain stitch**
   3 strands: bench line (color 1)
   2 strands: aqua edge



9. **Running stitch**, 3 strands
   Hop trail

10. **French knot**, two wraps
    2 strands: knob centers, yellow bumps
    4 strands: hands and feet



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

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



1	DMC 783 Medium Topaz	9	DMC BLANC White	17	DMC 349 Dark Coral
2	DMC 780 Ultra Very Dark Topaz	10	DMC 3823 Ultra Pale Yellow	18	DMC 554 Light Violet
3	DMC 930 Dark Antique Blue	11	DMC 939 Very Dark Navy Blue	19	DMC 552 Medium Violet
4	DMC 931 Medium Antique Blue	12	DMC 954 Nile Green	20	DMC 553 Violet
5	DMC 932 Light Antique Blue	13	DMC 912 Light Emerald Green	21	DMC 603 Cranberry
6	DMC 3752 Very Light Antique Blue	14	DMC 910 Dark Emerald Green	22	DMC 605 Very Light Cranberry
7	DMC 3821 Straw	15	DMC 351 Coral	23	DMC 601 Dark Cranberry
8	DMC 3766 Light Peacock Blue	16	DMC 352 Light Coral	24	DMC 807 Peacock Blue

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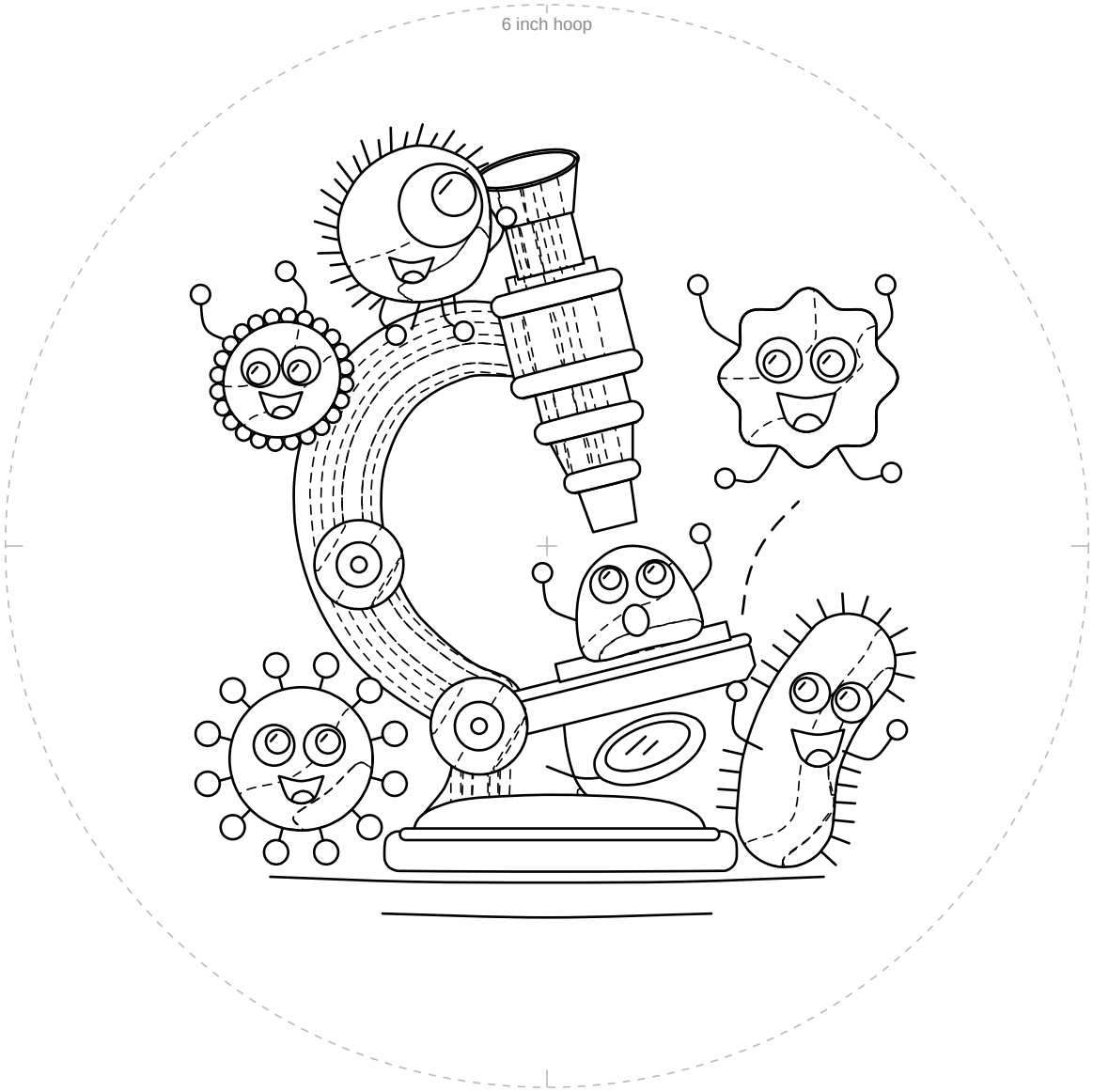
6 inch hoop

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; a finer one inside a shape is where two shades meet: trace it, do not stitch it.



1 in
25.4 mm

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

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