Space shuttle launch at dawn

Sized for a 6 inch hoop (15 cm). The stitched design is about 4.8 × 4.8 in (12.2 × 12.2 cm).



Which color goes where: by number on page 2.

Stitch in this order

Filled parts from the back of the picture forward, then lines and knots.

1. **Long and short stitch**, 1 strand
   Sky, cloud column, lagoon, near bank, heron
2. **Satin stitch**, 2 strands
   Dawn clouds, far shore, fire on the water, light on the water, booster fire, fuel tank, boosters, orbiter wings, orbiter, engine pods, and 8 more
3. **Straight stitch**, strands by part on page 2
   Launch tower, palm fronds, heron legs
4. **Split stitch**, 1 strand
   Wing edges, bay doors, heron wing
5. **Stem stitch**, strands by part on page 2
   Palm fronds, heron legs, edge
6. **French knot**, 1 strand, two wraps
   Heron eye

Three ways to transfer the pattern

1. **Fabric you can see through**
   Tape page 3 to a sunny window or lay it on a light box, tape the fabric over it and trace the lines with a sharp pencil or a water-soluble pen.
2. **Fabric you cannot see through**
   Lay dressmaker's carbon paper colored side down on the fabric with page 3 on top, tape the layers and trace the lines firmly with a ballpoint pen.
3. **Iron-on: the lines stay**
   Go over the lines of page 4, the mirrored page, with an iron-on transfer pen, lay it ink side down on the fabric and press with a dry iron, as the pen's packet says.

Pages 3 and 4 are the pattern at actual size. Print them at 100% with scaling turned off. Then put the fabric in the hoop: inner ring under, drawing up, tight as a drum.

Floss

- **1 DMC 931 Medium Antique Blue**
  Sky (shade 3 of 8), lagoon (shade 2 of 7)
- **2 DMC 3750 Very Dark Antique Blue**
  Sky (shade 1 of 8), edge, far shore and launch tower
- **3 DMC 930 Dark Antique Blue**
  Lagoon (shade 1 of 7), sky (shade 2 of 8)
- **4 DMC 160 Medium Gray Blue**
  Sky (shade 4 of 8), lagoon (shade 3 of 7)
- **5 DMC 3743 Very Light Antique Violet**
  Cloud column (middle dark), sky (shade 6 of 8), lagoon (shade 5 of 7) and 2 more parts
- **6 DMC 948 Very Light Peach**
  Sky (shade 8 of 8), cloud column (lightest), lagoon (shade 7 of 7) and 2 more parts
- **7 DMC 3856 Ultra Very Light Mahogany**
  Sky (shade 7 of 8), cloud column (middle light), lagoon (shade 6 of 7)
- **8 DMC 3854 Medium Autumn Gold**
  Sky (shade 5 of 8), lagoon (shade 4 of 7), fire on the water (dark)
- **9 DMC 3042 Light Antique Violet**
  Cloud column and dawn clouds (dark)
- **10 DMC 3041 Medium Antique Violet**
  Cloud column and dawn clouds (darkest)
- **11 DMC 745 Light Pale Yellow**
  Cloud column and fire on the water (light), booster fire (lighter), main engines
- **12 DMC 742 Light Tangerine**
  Booster fire (darker), fire on the water (middle), heron bill
- **13 DMC 918 Dark Red Copper** Fuel tank (darker)
- **14 DMC 920 Medium Copper** Fuel tank (lighter)
- **15 DMC 3865 Winter White**
  Boosters and heron (light), orbiter and orbiter wings (lighter)
- **16 DMC 318 Light Steel Gray**
  Heron and boosters (dark), bay doors and heron wing, engine pods (darker)
- **17 DMC 762 Very Light Pearl Gray**
  Boosters and heron (middle), orbiter wings and orbiter (darker), engine pods (lighter)
- **18 DMC 3799 Very Dark Pewter Gray**
  Palm trunks, wing edges, heron legs, tail fin, cockpit windows and heron eye
- **19 DMC 934 Black Avocado Green**
  Palm fronds, near bank and reeds (darker)
- **20 DMC 3362 Dark Pine Green** Reeds and near bank (lighter)

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6 inch hoop

How to read it

Floss is six strands. Cut 18 inches (45 cm), pull out the number given one at a time, and lay them together.

Inside a filled shape start with two or three tiny stitches, which the filling covers. Start a line with a small knot on the back. End each thread by running the needle under the backs of a few stitches.

Each small ring is one French knot. A fine broken line inside a shape is where two shades meet: trace it, do not stitch it.

A number on the picture is a color of the list of floss on page 1. The fine lines on the colors show which way the stitches lie.

Every stitch in pictures: flossfield.com/embroidery/stitches. The first time: flossfield.com/embroidery/guides/how-to-start.



1	DMC 931 Medium Antique Blue	**8**	DMC 3854 Medium Autumn Gold	**15**	DMC 3865 Winter White
2	DMC 3750 Very Dark Antique Blue	**9**	DMC 3042 Light Antique Violet	**16**	DMC 318 Light Steel Gray
3	DMC 930 Dark Antique Blue	**10**	DMC 3041 Medium Antique Violet	**17**	DMC 762 Very Light Pearl Gray
4	DMC 160 Medium Gray Blue	**11**	DMC 745 Light Pale Yellow	**18**	DMC 3799 Very Dark Pewter Gray
5	DMC 3743 Very Light Antique Violet	**12**	DMC 742 Light Tangerine	**19**	DMC 934 Black Avocado Green
6	DMC 948 Very Light Peach	**13**	DMC 918 Dark Red Copper	**20**	DMC 3362 Dark Pine Green
7	DMC 3856 Ultra Very Light Mahogany	**14**	DMC 920 Medium Copper		

How many strands

Straight stitch. 2 strands: palm fronds, heron legs; 1 or 2 strands: launch tower.
Stem stitch. 3 strands: edge; 2 strands: palm fronds, heron legs.

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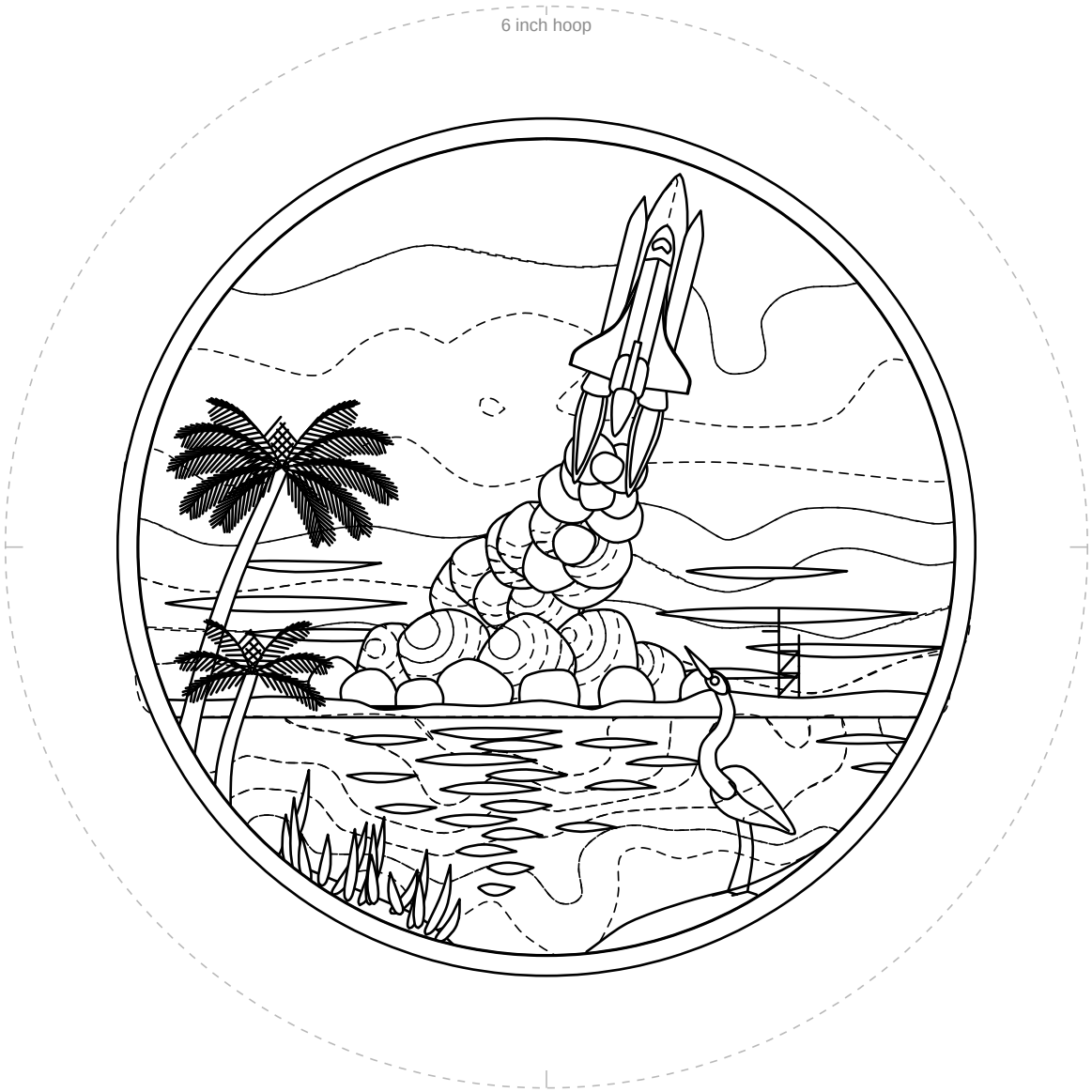
6 inch hoop

Print at 100% and check the square below with a ruler. Fold the fabric in four: the folds meet the four ticks of the ring.



1 in
25.4 mm

Check square: 1 inch (25.4 mm) on each side.
If it measures anything else, print again at 100% with scaling off.

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6 inch hoop

Mirrored. Trace this page with an iron-on transfer pen or pencil, then press it ink side down on the fabric.



1 in
25.4 mm

Check square: 1 inch (25.4 mm) on each side.
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