Vintage solar system orrery

Sized for a 6 inch hoop (15 cm). The stitched design is about 4.5 × 4.6 in (11.4 × 11.7 cm).



Which color goes where.

Stitches

- **Long and short stitch**, 1 strand
  Lower book, pedestal, sun, moth wings
- **Satin stitch**, 2 strands
  Spine bands, upper book, bookmark, pedestal foot, crank wheel, crank, toothed wheel, shaft, collars, pin sockets, jupiter, saturn ring, and 2 more
- **Split stitch**, 1 strand
  Book outlines, pedestal outlines, wheel outlines, planet outlines, moth outlines
- **Stem stitch**, 1 to 2 strands
  Book outlines, pedestal outlines, wheel outlines, shaft outlines, planet outlines, sun, feelers
- **Back stitch**, 1 to 3 strands
  Pages, pins
- **Couching**, 5 to 6 strands
  Bracket, arms
- **Padded satin stitch**, 2 strands
  Crank handle, mercury, venus, earth, mars, uranus, neptune, saturn, moth body
- **Straight stitch**, 1 strand
  Planet lights, moth body

Floss

DMC 919 Red Copper
Lower book and saturn ring (darker), sun and jupiter (darkest), mars and 2 more parts

DMC 922 Light Copper
Lower book and saturn ring (lighter), sun rays (darker), jupiter (dark)

DMC 680 Dark Old Gold
Toothed wheel and pedestal (dark), arms (light), crank wheel (darker) and 7 more parts

DMC 3371 Black Brown
Book outlines, wheel outlines, planet outlines and pedestal outlines and 6 more parts

DMC 729 Medium Old Gold
Arms (lightest), shaft and sun (middle), sun rays (lighter), saturn and 8 more parts

DMC 3822 Light Straw
Sun and shaft (light), pages (lighter), jupiter (lightest) and 3 more parts

DMC 930 Dark Antique Blue
Upper book and neptune

DMC 3808 Ultra Very Dark Turquoise
Earth and bookmark

DMC 869 Very Dark Hazelnut Brown
Collars and crank, arms (dark), pedestal (darkest)

DMC 932 Light Antique Blue
Mercury

DMC 3865 Winter White
Moth wings and sun (lightest), moth body (lighter), planet lights

DMC 3810 Dark Turquoise
Uranus

Three ways to transfer the pattern

1. **Fabric you can see through**
   Tape page 2 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 2 on top, tape the layers and trace the lines firmly with a ballpoint pen.
3. **Iron-on**
   Go over the lines of page 3, the mirrored page, with an iron-on transfer pen, lay it ink side down on the fabric and press with a dry iron.

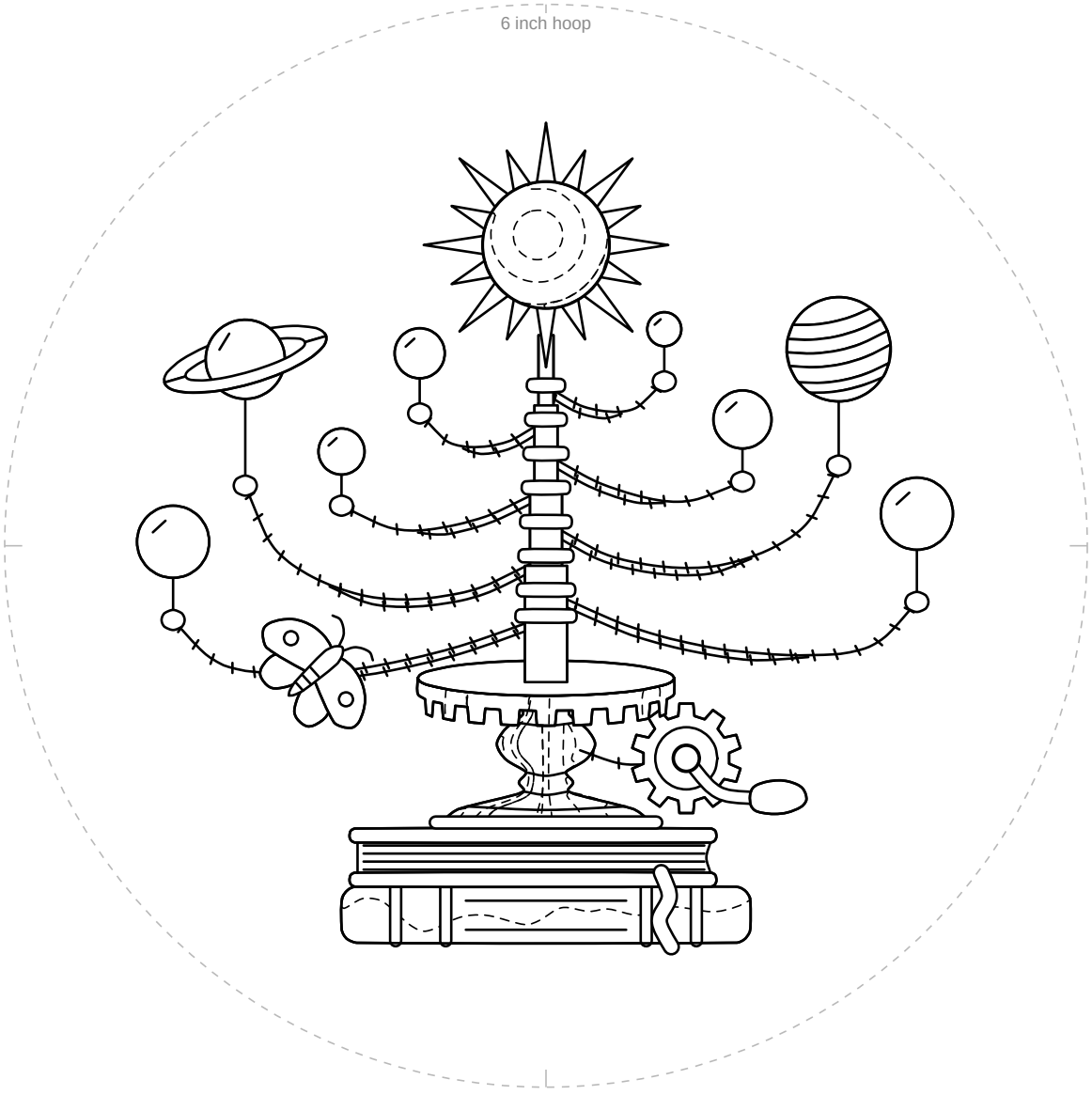
Pages 2 and 3 are the pattern at actual size. Print them at 100% with scaling turned off.

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6 inch hoop

Print at 100% (actual size). Do not scale or fit to page. Check the square below with a ruler before you trace.



1 in
25.4 mm

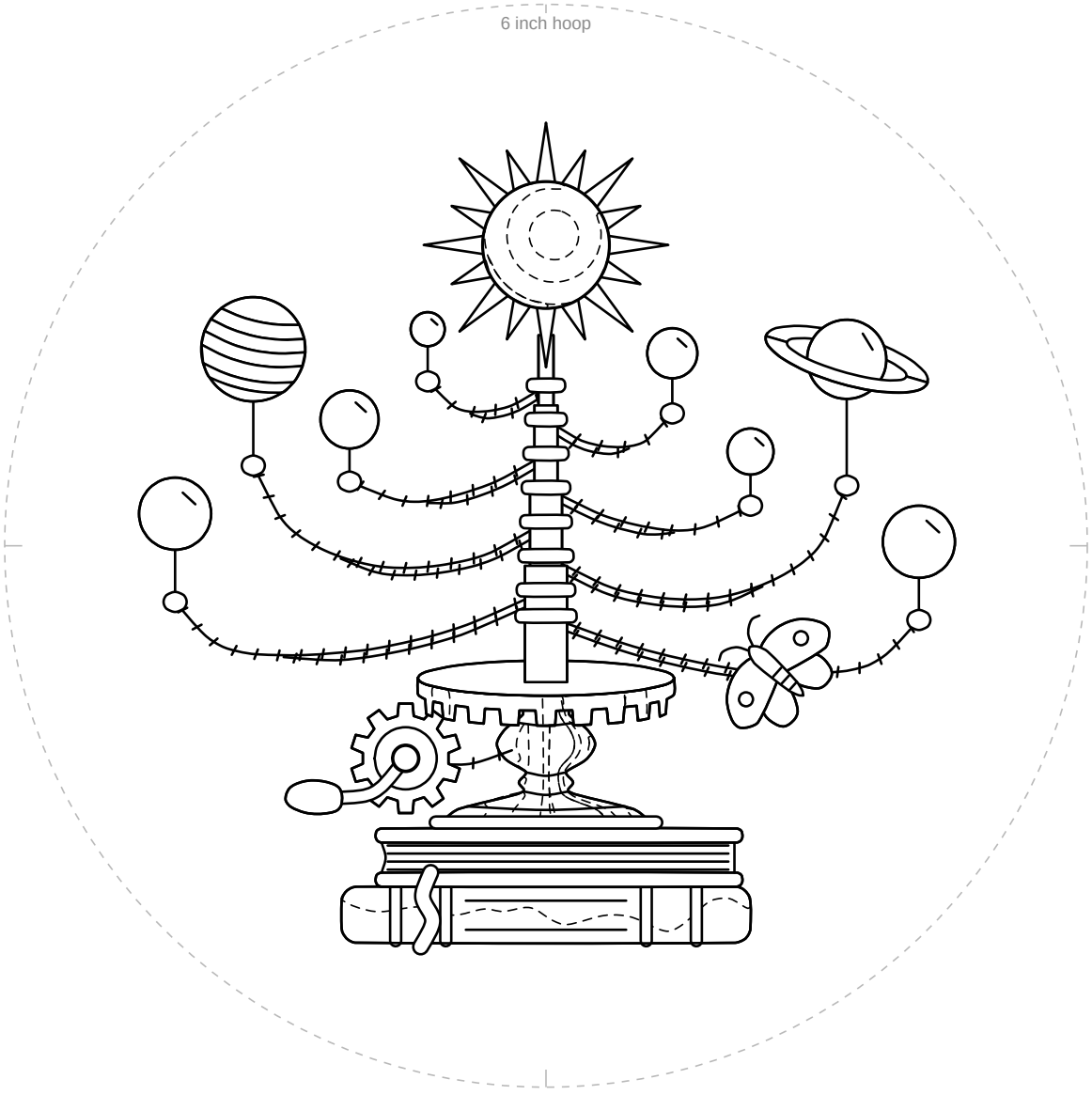
Check square: 1 inch (25.4 mm) on each side.
If it measures anything else, print again at 100% with scaling off.

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Vintage solar system orrery

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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