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MATERIALS & INFO

Madelinetosh Tosh Vintage or any worsted yarn one skein each of Life on Mars and Mars Rover, or any two colors with good contrast.

Gauge 16 stitches and 24 row in four inches with larger needles.

Needles: Size 7 DPN or 16" circular needle
Size 8 DPN or 16" Circular needle or size to give gauge.

If using circular needles, you'll need DPNs, an extra circular needle or a longer circular needle for magic loop for the crown decreases.

Notions: Yarn needle

Finished size: Adult large

PATTERN NOTES

This hat pays tribute to the Mars rovers Curiosity and Opportunity, who are being joined in early 2021 by the Perseverance rover and its companion Ingenuity helicopter rover. We are grateful to Sarah Milkovich for drafting the Perseverance chart and we added Ingenuity, Curiosity and Opportunity. Sarah's pattern for a hat showing Perseverance only is at <https://www.ravelry.com/patterns/library/mars-rover-hat>.

The pattern produces an adult large hat, and you can adjust the size by going down a needle size or using finer yarns and smaller needles. Since there are long floats in the pattern, you will want to use a woven Fair Isle or ladderback jacquard technique to avoid puckering.

ABBREVIATIONS

k knit stitch

p purl stitch

k2tog knit two together

PATTERN INSTRUCTIONS

Brim

Using smaller needles, cast on 96 stitches and join, being careful not to twist the stitches. Work either a k2p2 ribbing or k1p1 ribbing for one inch for a one-layer brim. Work a two-inch brim if you want a folded brim. You will have about 12 rounds for a 1" brim, and 24 rounds for a 2" folded brim.

Body of Hat

Change to larger needles and increase 16 stitches evenly to 112 total stitches.

Begin working the charts. Be careful to work your floats so that they do not produce puckering on the surface or your knitting. It is helpful to spread your stitches out every inch or so that they aren't bunched together and are spaced the way that they'll look in the finished hat.

Work the charts through row 27. You can add rounds of solid color to achieve the height that you want.

Crown Decreases

When the hat is at the desired length, knit the decrease rows as follows:

Round 1 *k6, k2tog* repeat to end

Round 2 Knit

Round 3 *k5, k2tog* repeat to end

Round 4 Knit

Round 5 *k4, k2tog* repeat to end

Round 6 Knit

Round 7 *k3, k2tog* repeat to end

Round 8 Knit

Round 9 *k2, k2tog* repeat to end

Round 10 Knit

Round 11 *k1, k2tog* repeat to end

Round 12 *k2tog* repeat to end

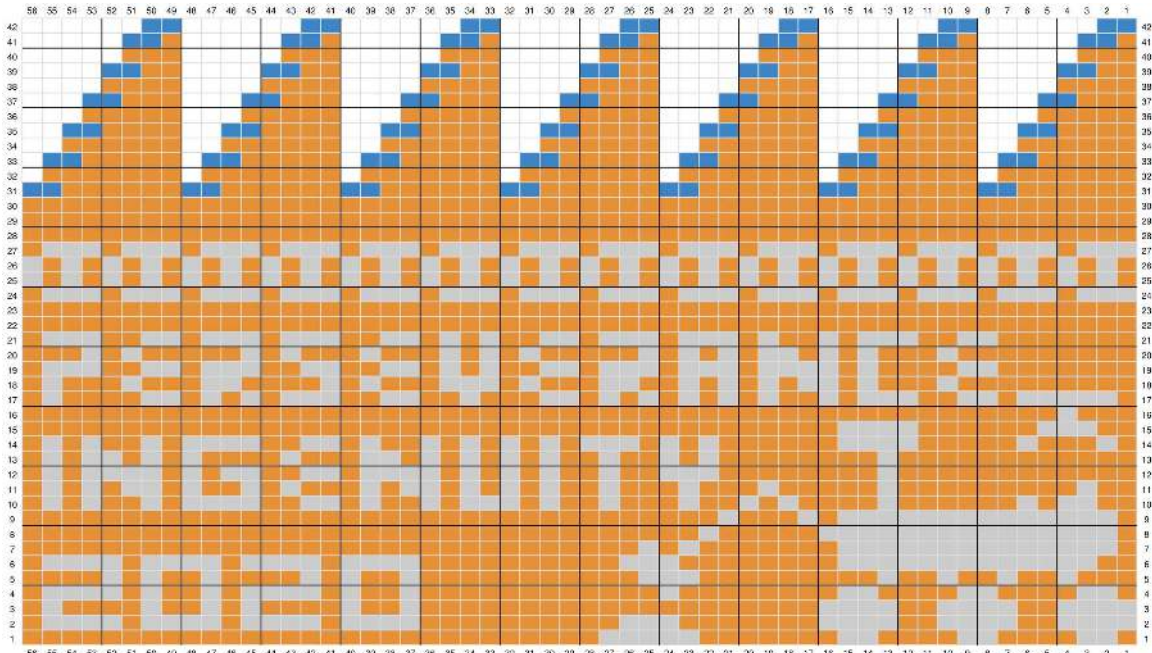
Finishing

Break off yarn, thread through a tapestry needle and draw the yarn through all remaining 14 stitches. Fasten off and weave in ends. Block gently. You're ready for launch or the landing!

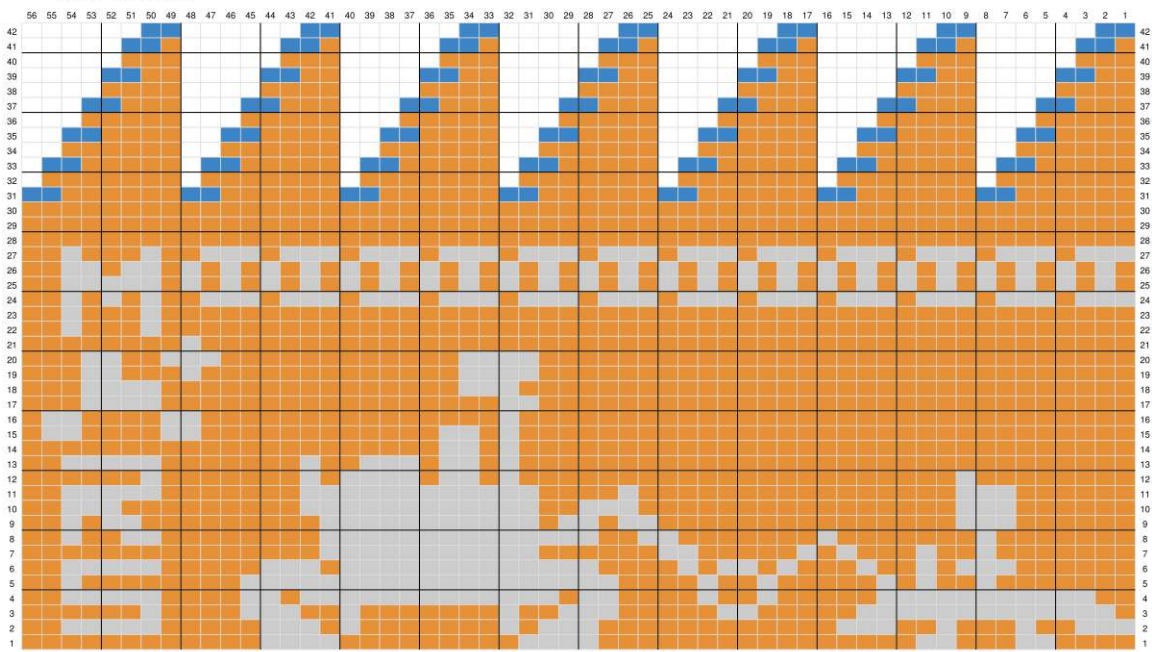
ABOUT THE AUTHOR

Mary Walker is the owner of Weaving in Beauty in Gallup, NM. Julie Kangas is an astrophysicist living and working in California. She is working on the Perseverance/Ingenuity project.

CHARTS



Orange used for background stitches
Blue Knit Two Together on Decrease Row
Grey Contrast color used for rovers and lettering



Orange Color used for background of hat
Blue Knit Two Together on Decrease Row
Grey Rovers and Lettering