

Resistor Knit Hat with option for DNA colorwork

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For more information, photos, and a video tutorial, see:

<http://www.craftimism.com/2017/02/resistor-hat-pattern.html>

Difficulty level: Intermediate

Supplies: Worsted weight yarn in main & contrast color (blue or green for the March for Science), 16" circular and double-pointed needles in size to obtain gauge

Gauge: 16 st by 18 rows is 4" by 4" in stockinette stitch

Abbreviations: K = Knit, P = Purl, K2tog = Knit 2 together

Note: If you are new to colorwork, the DNA pattern will be easier as there are fewer long carries. During the long carries, wrap the non-working yarn around the working yarn behind the hat every 2-3 stitches. For the DNA pattern, you can choose whether to include the base pairs (marked with O's in the pattern).

Directions:

Cast on 84 stitches in the main color. Join to knit in the round.

K3P3 ribbing for 8-10 rounds in main color.

Add contrast color for stripe or continue to knit in main color.

Knit 1 round with contrast color (or main color).

Knit in pattern for 5 rounds (DNA) or 6 rounds (Resistor). Knit 1 round in contrast color.

Knit in main color until hat measures ~5 inches from base.

Decrease as follows, switching to double-pointed needles when necessary:

K2tog, K12 Repeat six times

K2tog, K11 Repeat six times

K2tog, K10 Repeat six times

K2tog, K9 Repeat six times

K2tog, K8 Repeat six times

K2tog, K7 Repeat six times

K2tog, K6 Repeat six times

K2tog, K5 Repeat six times

K2tog, K4 Repeat six times

K2tog, K3 Repeat six times

K2tog, K2 Repeat six times

K2tog, K1 Repeat six times

K2tog Repeat six times

Resistor colorwork chart:

Figure 1 consists of two 10x10 grids. The left grid shows the distribution of the number of children per family, with 'x' marks indicating the frequency of each number. The right grid shows the distribution of the number of children per family, with 'x' marks indicating the frequency of each number.

Number of children	Frequency (Left Grid)	Frequency (Right Grid)
0	1	1
1	2	2
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1

- Repeat 3 times

Repeat once

DNA colorwork chart:

	X	X	X						X	X	X
X		O		X				X		O	
	X	O		O	X		X	O		O	X
		X		O		X		O		X	
			X	X	X		X	X	X		

Repeat 12 times