Robot hat for kids

Child, head 19½ in (50 cm) · US terms



Finished size

About 18½ in (47 cm) round and about 8 in (20 cm) deep, measured along the cloth from the center of the top; the sides are about 5¼ in (13 cm) high and the flat top is about 5¾ in (15 cm) across

To fit a head of 19½ in (50 cm)

Skill

Easy

Single crochet in a spiral, small pieces sewn on, French knots

Yarn

Medium (4), 6 colors

Hook

5.5 mm (US I-9)

Gauge

13 stitches and 14 rounds to 4 in (10 cm)

In single crochet (UK double crochet).

What you need

Yarn A: steel blue, the hat and the stem of the antenna	**about 115 yd (105 m), an estimate**
Yarn B: deep navy, the panel and the rings round the pupils	**about 15 yd (14 m), an estimate**
Yarn C: warm white, the eyes and lights	**about 10 yd (9 m), an estimate**
Yarn D: bright coral, the edge, the knobs, the ball and lights	**about 25 yd (23 m), an estimate**
Yarn E: aqua blue, the pupils and lights	**about 5 yd (5 m), an estimate**
Yarn F: golden yellow, the spring and lights	**about 5 yd (5 m), an estimate**

By weight: about 90 g in all, an estimate, where 100 g is 200 yd (183 m).

Hook: 5.5 mm (US I-9), or the size that gives you the gauge. Also: a soft tape measure, a stitch marker, a yarn needle, scissors, pins and a little toy stuffing for the antenna and the knobs.

To find how many balls: divide by the length on your yarn's label and round up. Buy them from one dye lot. Yarns A, B, C, D and E: the estimate is from the stitches and chains of this size at this gauge, with 30 percent added. Yarn F: the estimate is from the stitches of this size at this gauge, with 30 percent added.

Sizes

Size	Head	Finished size, about	Yarn, an estimate
Baby, 3 to 6 months	15 in (38 cm)	14¼ in (36 cm) round, 6½ in (17 cm) deep	about 130 yd (119 m)
Baby, 6 to 12 months	16½ in (42 cm)	15½ in (39 cm) round, 7¼ in (18 cm) deep	about 145 yd (133 m)
Toddler	18 in (46 cm)	17 in (43 cm) round, 7¾ in (20 cm) deep	about 160 yd (146 m)

For your own crochet, gifts and handmade pieces you sell. Do not resell or share this PDF or copies of it.

Child (this file)	**19½ in (50 cm)**	**18½ in (47 cm) round, 8 in (20 cm) deep**	**about 175 yd (160 m)**

Gauge

13 stitches and 14 rounds to 4 in (10 cm) in single crochet.

The gauge is measured on the hat itself, at the two places the rounds name: across the crown, which checks the height of the rounds, and round the outside of the hat with a soft tape, along the round just worked, which checks the stitches and so the size round. If the hat measures more round than its round says, begin again with a smaller hook; if less, with a larger one. If it is right round and the crown measures more than it says, your rounds are taller than the gauge and the hat will come out deeper than stated; if the crown measures less, it will come out shallower.

Check your gauge on the piece. Begin the pattern and measure the piece itself as you go. After round 14, put a soft tape round the outside of the hat along that round, without pulling it in: the hat should measure about 18½ in (47 cm) round.

The pattern also stops you to measure after round 10.

Notes

- On a baby: sew every part on firmly all round, and take the hat off for sleep.
- Measure the head if you can: put a soft tape round its widest part, across the middle of the forehead and just above the ears, and choose the size whose head measurement is nearest. Each size is made about 1 in (2.5 cm) smaller round than the head it is for, as nearly as whole repeats of its stitches allow, so that it stays on.
- The hat begins with a magic ring: wrap the yarn once round two fingers, leaving a tail of 6 in (15 cm), and with the hook draw a loop of the working yarn up through the ring. Keep that loop on the hook and make the chain that round 1 begins with; where round 1 names no chain, make 1 chain to hold the loop, and do not count it. Work the stitches of round 1 into the ring, over the tail too, then pull the tail until the ring is closed.
- The right side of the hat faces you in every round; the rounds are never turned.
- The rounds of the hat are worked in a spiral: do not join; put a marker in the first stitch of each round and move it up every round.
- To change yarn at the start of a round, finish the last stitch of the round before with the new yarn. Where a yarn rests for 4 rounds or fewer before it is used again, carry it up the inside; where it rests for more, or is not used again, cut it, leaving a tail of 6 in (15 cm).
- The eyes, the knobs and the antenna are begun with a magic ring like the hat and worked in a spiral: no chain at the start of a round and no slip stitch at its end; put a marker in the first stitch of each round and move it up every round. The right side faces you.
- Where a piece worked in a spiral changes yarn at the start of a round, make the last yarn over of the last stitch of the round before with the new yarn; then cut the old yarn, leaving a tail of 6 in (15 cm).
- Back loop only: of the two loops at the top of a stitch work under the one that lies farther from you as you work.
- The number at the end of each line is the number of stitches it has when it is finished; chains and slip stitches that are not named there are not counted.
- The panel is worked in rows: the chain at the start of a row does not count as a stitch, and the first stitch after the turn goes into the last stitch of the row before.
- The turn from the flat top to the straight sides is made by the round that is worked in the back loops only: its free front loops are the sharp edge of the top.

For your own crochet, gifts and handmade pieces you sell. Do not resell or share this PDF or copies of it.

Instructions

Child, head 19½ in (50 cm). US terms.

ch chain, **sc** single crochet (UK double crochet), **MR** magic ring, **st** stitch, **rnd** round.
BLO: only the loop away from you. **RS** right side, the one that shows.
2 sc in next st: both in one stitch. **sc in next 3 sts**: one in each.
[ ] 6 times: work what is inside 6 times in all.
(6 sc): the stitches you have when the round is done. **How to read a pattern**.

Special stitches

sc2tog (single crochet 2 together; UK dc2tog): Pull up a loop in each of the next 2 stitches, yarn over and pull through all 3 loops: 1 stitch decreased.

Hat

Yarns in order of use: A, steel blue; D, bright coral.

☐ **Foundation**	Make a magic ring.	

Crown

☐ **Rnd 1 (RS)**	6 sc in MR. Pull the tail to close the ring.	(6 sc)
☐ **Rnd 2**	2 sc in each st around	(12 sc)
☐ **Rnd 3**	**[**2 sc in next st, sc in next st**] 6 times**	(18 sc)
☐ **Rnd 4**	**[**Sc in next 2 sts, 2 sc in next st**] 6 times**	(24 sc)
☐ **Rnd 5**	**[**2 sc in next st, sc in next 3 sts**] 6 times**	(30 sc)
☐ **Rnd 6**	**[**Sc in next 4 sts, 2 sc in next st**] 6 times**	(36 sc)
☐ **Rnd 7**	**[**2 sc in next st, sc in next 5 sts**] 6 times**	(42 sc)
☐ **Rnd 8**	**[**Sc in next 6 sts, 2 sc in next st**] 6 times**	(48 sc)
☐ **Rnd 9**	**[**2 sc in next st, sc in next 7 sts**] 6 times**	(54 sc)
☐ **Rnd 10**	**[**Sc in next 8 sts, 2 sc in next st**] 6 times**	(60 sc)

> **Stop and measure now, after round 10.** The crown, laid flat, should measure about 5¾ in (15 cm) across.

Sides

☐ **Rnd 11**	Sc in BLO of each st around	(60 sc)
☐ **Rnds 12 to 14**	Sc in each st around	(60 sc)

The heavy box is where you stop and measure.

12 13 **14**

> **Stop and measure now, after round 14.** Put a soft tape round the outside of the hat along that round, without pulling it in: the hat should measure about 18½ in (47 cm) round.

☐ **Rnds 15 to 26**	Sc in each st around	(60 sc)

15 16 17 18 19 20 21 22 23 24 25 26

Edge

☐ **Rnd 27**	With D, sc in each st around	(60 sc)

For your own crochet, gifts and handmade pieces you sell. Do not resell or share this PDF or copies of it.

☐ **Rnd 28**	Sc in each st around	(60 sc)
☐ **End**	Slip stitch in the next stitch to level the edge. Fasten off, leaving a tail of 6 in (15 cm).	

Eye: make 2

Yarns in order of use: E, aqua blue; B, deep navy; C, warm white.

☐ **Foundation**	Make a magic ring.	
☐ **Rnd 1 (RS)**	6 sc in MR. Pull the tail to close the ring.	(6 sc)
☐ **Rnd 2**	With B, 2 sc in each st around	(12 sc)
☐ **Rnd 3**	With C, **[**sc in next st, 2 sc in next st**] 6 times**	(18 sc)
☐ **End**	Slip stitch in the next stitch. Fasten off, leaving a tail of 20 in (51 cm) of yarn C for sewing.	

Knob: make 2

Yarn D, bright coral.

☐ **Foundation**	Make a magic ring.	
☐ **Rnd 1 (RS)**	6 sc in MR. Pull the tail to close the ring.	(6 sc)
☐ **Rnd 2**	2 sc in each st around	(12 sc)
☐ **Rnds 3 to 4**	Sc in each st around 3 4	(12 sc)
☐ **End**	Slip stitch in the next stitch. Fasten off, leaving a tail of 20 in (51 cm) for sewing.	

Panel

Yarn B, deep navy.

☐ **Foundation**	Ch 16, leaving a tail of 6 in (15 cm) before the first chain.	
☐ **Row 1 (RS)**	Sc in 2nd ch from hook and in each ch across	(15 sc)
☐ **Rows 2 to 6**	Ch 1, turn; sc in each st across 2 3 4 5 6	(15 sc)
☐ **End**	Fasten off, leaving a tail of 60 in (152 cm) for sewing.	

Antenna

Yarns in order of use: D, bright coral; A, steel blue.

☐ **Foundation**	Make a magic ring.	
☐ **Rnd 1 (RS)**	6 sc in MR. Pull the tail to close the ring.	(6 sc)
☐ **Rnd 2**	2 sc in each st around	(12 sc)
☐ **Rnd 3**	Sc in each st around	(12 sc)
☐ **Rnd 4**	**[**Sc2tog over next 2 sts**] 6 times** Stuff the ball firmly with toy stuffing now, its starting tail inside it.	(6 sc)
☐ **Rnd 5**	With A, sc in each st around	(6 sc)

For your own crochet, gifts and handmade pieces you sell. Do not resell or share this PDF or copies of it.

☐ **Rnds 6 to 10** 6 7 8 9 10	Sc in each st around	(6 sc)
☐ **Rnd 11**	2 sc in each st around	(12 sc)
☐ **End**	Slip stitch in the next stitch. Fasten off, leaving a tail of 20 in (51 cm) of yarn A for sewing.	

Assembly

1. Pull the ring at the start of the hat closed once more and weave its tail through the stitches of round 1 on the inside.

2. Eyes and knobs: before a piece is sewn on, pull its ring tight once more and weave in on its wrong side all its ends but the long sewing tail. Sew it on with that tail, its right side outward.

3. The middle of the front is opposite the place where the last round of the hat begins; fold the hat in half there to find it. Mark with pins the straight line that runs from there up to the center of the top. Where a place is given by a round and a number of stitches from the middle of the front, count the rounds from the center of the top and the stitches along that round from the marked line; left and right are meant as you look at the front.

4. Eyes: sew one on each side of the middle, its center on round 15 of the hat, 4 stitches from the middle of the front. With a strand of yarn C 12 in (30 cm) long for each, work one French knot on the blue middle of each eye, on the upper right as you look at it. French knot: bring the needle up from below, wrap the yarn 2 times round it close to the cloth, hold the wraps snug and go down again one thread away from where it came up.

5. Lights: work them on the panel before it is sewn on. Hold the panel with its right side toward you and its beginning chain at the top, and count its stitches from the left. With the yarn held double in the needle work one French knot of 3 wraps in each of these stitches, in the middle of the stitch: in row 2, stitch 2 with D, stitch 4 with F, stitch 6 with E, stitch 8 with C, stitch 10 with D, stitch 12 with F, stitch 14 with E; in row 5, stitch 2 with E, stitch 4 with C, stitch 6 with D, stitch 8 with F, stitch 10 with E, stitch 12 with C, stitch 14 with D. Use one strand 60 in (152 cm) long of each yarn for all its knots, lead it loosely along the wrong side from knot to knot, and weave its ends in there. A knot of 3 wraps is worked like the knot in the eye, the yarn wrapped 3 times round the needle in place of 2.

6. Panel: weave in its beginning tail. Pin the panel to the front below the eyes, its right side up and its beginning chain at the top: the chain lies along round 19 of the hat and row 6 along round 25, and its middle stitch, stitch 8, lies at the middle of the front. Sew it down with its long tail, over and over its edge, all round: bring the needle up from the inside through the cloth of the hat close beside the edge of the panel, go down through the panel, one stitch or one row in from its edge, and through the hat under it, and come up again beside the edge one stitch or one row farther on. That is 15 small stitches along the chain, 6 along each side and 15 along row 6, 42 in all.

7. Knobs: lay the hat flat with the place at its lower edge where its last round begins at the middle of the back, the center of the top at the middle of the upper fold: the fold on each side is then the side of the hat. Put a little stuffing in each knob and sew its open edge, opened to a ring, to the fold at each side, the center of the ring on round 15 of the hat, level with the eyes.

8. Antenna: tuck the tails of the yarn change into the stem, stuff the stem firmly, so that it stands, and sew its last round, opened to a ring, to the center of the top, all round, over rounds 1 and 2 of the hat. Spring: with yarn F, leaving a tail of 8 in (20 cm) at each end, chain 44 and fasten off. Wind this cord round the stem of the antenna in a spiral of 5 turns, from the foot to the ball, the turns apart by about the thickness of the cord; take its two tails into the stem, the one at the foot and the other just under the ball, sew each end down with two stitches and run the rest inside the stem.

Finishing

- Weave in every end on the inside of the hat.

In all: 7 pieces; 1,740 stitches (1,410 in the hat, 36 in each eye, 42 in each knob, 90 in the panel, 84 in the antenna).

Found a mistake in this pattern? Tell us at flossfield.com, under Make a request.

For your own crochet, gifts and handmade pieces you sell. Do not resell or share this PDF or copies of it.