



# SHUTTLE THE SHONGOLOLO



BY

**PROJECTARIAN**



# PROJECTARIAN

PATTERN  
DESIGNED BY

## JESSIE VAN IN

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# INTRODUCTION

## ABOUT SHUTTLE

Shuttle is a species of millipede who live on and consume mineral-rich meteoroids in parts of the galaxy where the rocks are densely packed in asteroid clouds. They have very long bodies in order to stretch across space and move to a new meteoroid when the food runs out on their current rock. The different levels of minerals that they consume on each different space rock produce vivid colours on their bodies, and the stripes they have mark each time they moved to a new grazing slab.

Baby millipedes have short bodies and dense fur without any stripes, since they spend the beginning of their lives on a single space rock with a limited diet. A good mum will lay her eggs on a bountiful meteoroid to ensure her babies have sufficient food until they grow long enough to reach across to a new one. They shed their fur with age, revealing a vivid exoskeleton, coloured by their diet, like their parents.

## ABOUT THE PATTERN

This is a customizable design whereby you can make your shongololo as long or as short as you please (a millipede or a pill-ipe)!

You can make him gigantic or stout, depending on your choice of yarn and hooks. There is even the option in this pattern to make him furry, if you're up for a fun challenge!

The furry version is smaller and simpler, to preserve your sanity, but if you're feeling extra adventurous, follow the original pattern using fur yarn and perhaps experiment with switching to plain yarn at the beginning and end of each segment to help define the shape where each segment cinches.

Shuttle's design makes for a repetitive, meditative project, ideal for keeping your hands occupied while letting your brain off the hook (pun intended!). It doesn't require a high level of skill or focus to complete, so even the less experienced can create an impressive project with confidence and ease.

This project contains no sewing except to attach the feelers, all the other pieces are crocheted on as you go.

I hope you enjoy making Shuttle as much as I enjoyed designing him!

- Jessie 



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# PATTERN INFORMATION

## BASIC INFORMATION

**Terminology:** US

**Size:** 185 cm long\* X 16 cm tall

**Difficulty:** Intermediate

\*If you'd like to make a shorter, simpler version of Shuttle, **follow the pink directions** for the furry millipede but substitute its Body Col B (fur yarn) with DK yarn. See pg 7 for more info.

Use all the following guidelines by default, unless otherwise indicated:

### YARN WEIGHT

Double knit (DK), **which is the equivalent to yarn weight 3, light worsted, 8 ply or 11 wpi.**

Chunky, **which is the equivalent to yarn weight 5, bulky or 7 wpi. In this pattern, aran with a similar thickness is used as a substitute for chunky on the legs.**

### YARN CONVERSION

**DK:** Choose yarn with a label that calls for a 4 mm hook or that has a weight similar to 2.3 m/g. To determine this, look at the label on your yarn and divide the length by the weight.

$$230 \text{ m} \div 100 \text{ g} = 2.3 \text{ m/g}$$

**Chunky:** Choose yarn with a weight similar to 1.6 m/g, or that is 2 weight classes above your main yarn.

**If you're using different yarn, apply the following hook conversion tip:**

### HOOK CONVERSION

DK usually calls for a 4 mm hook, but this pattern also uses a 2 mm hook. Therefore, check your yarn's label and use the recommended hook size as your main hook, paired with another hook that is 2 X smaller than the first.

### Example:

To find the smaller hook size, divide the larger hook size by 2.

$$4 \text{ mm} \div 2 = 2 \text{ (use a 2 mm hook)}$$

# YARN

ALLOCATION	BRAND	TYPE	THICKNESS	NAME	QTY
<b>Body Col A</b>	Elle Charity Print	DK acrylic	2.3 m/g	Four Seasons (variegated)	340 g 782 m
<b>Body Col B*</b>	Elle Colour Crush	DK acrylic	3 m/g	No Truffle At All (variegated)	133 g 399 m
<b>Body Col B*</b>	Elle Colour Crush	DK acrylic	3 m/g	I Pink Not (variegated)	107 g 321 m
<b>Leg Col</b>	Kismet Lollipop Vezuvo**	Aran acrylic, polyamide	1.8 m/g	Melange Coral (lilac)	210 g 378 m
<b>Belly Col</b>	Elle Charity Chunky	Chunky acrylic	1.6 m/g	Porcelain (cream)	310 g 496 m
<b>Feeler Col</b>	Elle Pure Gold Print	DK acrylic	2.6 m/g	Blueprint (blue)	7 g 18 m

*Body Col A & B are combined (2 threads held together while crocheting) to achieve the colour effect.*

*\*This design uses 2 different colours of the same yarn for more colour variation when using Col B.*

*\*\*Can be substituted with Elle Charity chunky (i.e. the brand of yarn chosen for the Belly Col). Elle Charity chunky and Kismet Lollipop Vezuvo aran both swatch to the same size following the gauge pattern on pg 5 (the same applies for swatching of both DK yarns listed).*

## NECESSARY SKILLS

Instructions for the skills listed below can be found in the Amigurumi Tips booklet included with this pattern.

- Working in rows and in the round (in a spiral)
- Accurately counting stitches and rows
- Using running stitch markers
- Basic sewing
- Invisible decrease
- Crocheting into the sides of rows
- Crocheting into a chain
- Recognizing wrong side (WS) vs right side (RS) of a stitch

## SUPPLIES

- 2 mm hook (for feelers only)
- 4 mm hook (for all pieces except feelers)
- Stuffing (such as Poly-Fil/Fiberfill): 843 g for large, plain millipede **or** 280 g for small, furry millipede
- Yarn sewing needle
- Scissors
- Stitch markers

## SAFETY

This model has not been tested for safety. It may not be suitable for babies or young children.

# ABBREVIATIONS

**R** - row/round  
**St/s** - stitch/es  
**Ch** - chain  
**SS** - slip stitch/surface stitch  
**SC** - single crochet  
**HDC** - half double crochet  
**Inc** - increase  
**Dec** - decrease  
**\*...\*** - section to be repeated  
**Rem** - remaining  
**Sk** - skip  
**FLO** - front loop only \*  
**BLO** - back loop only  
**WS** - wrong side  
**RS** - right side  
**LHS** - left-hand side  
**RHS** - right-hand side  
**Sp/s** - space/s  
**RSM** - running stitch marker  
**SOS** - sides of stitches  
**Col** - colour  
**MR** - magic ring  
**WITR** - working in the round

*\*The front loop is always the one closest to you. When you flip your workpiece, the original front loops now become the back loops, until you flip your workpiece back over again.*

## EXAMPLES OF ABBREVIATIONS USED IN COMBINATION

**SC-dec:** SC 2 sts together. Use an invisible decrease by default (as described in the Amigurumi Tips booklet).  
**SC-inc:** Work 2SC into the same space.  
**BLO-SS** or **FLO-SS:** SS in BLO or FLO.  
**BLO-SC** or **FLO-SC:** SC in BLO or FLO.  
**BLO-dec:** Worked like a regular invisible decrease, but work into BLO instead of FLO.

# CHAINS & SLIP STITCHES

Chains and slip stitches do not count as stitches. Do not include these when counting your stitches and do not work into them unless specifically indicated.

# CROCHET GAUGE: CHOOSING YARN & MAKING SWATCHES

You may find yourself wanting to combine different brands, textures and weight classes of yarn for this project. Shuttle's design is not extremely sensitive to precise yarn thickness, so you can easily combine multiple types with the help of gauge swatches. Make a swatch with each yarn type you intend to use, following the patterns below. Each swatch should match its listed size and if not, adjust your hook size or yarn weight until they do match (use a smaller hook and/or thinner yarn to make smaller swatches and vice versa for larger swatches). If you're using different yarn to the suggested types and not aiming to match the pattern's size, swatch your yarns anyway and make sure that the body's, belly's and leg's swatches are all the same size.

## SC GAUGE

### 4 mm hook, 2 threads of DK yarn:

5 cm X 5 cm block = 7SC X 9 rows.

### 4 mm hook, chunky yarn:

5 cm X 5 cm block = 7SC X 9 rows.

### 4 mm hook, aran yarn:

5 cm X 5 cm block = 7SC X 9 rows.

### 2 mm hook, DK yarn:

3 cm X 3 cm block = 7SC X 6 rows.

## FURRY MILLIPEDE

### 4 mm hook, DK & fur yarn combined:

5 cm X 5 cm block = 7SC X 9 rows.

# MAGIC KNOT

When you reach the end of a ball of yarn and need to join a new one, use the magic knot for joining. If you're unfamiliar with this knot, there are loads of tutorials to be found online. For example, simply search YouTube for "magic knot" and [watch one of these videos to learn the technique.](#)

# EXTRA TIPS

## TOP TIP: READ EVERYTHING!

This pattern contains *every bit* of information you'll need to complete your project. If you read everything, look at every picture, and do precisely as directed by the instructions, you will be able to follow the pattern. It is also advised to work through the project in the order that it's presented. **If you get stuck, read the instructions carefully and look at the pictures. If you don't know how to do a certain technique, find directions in the Pattern Information or the Amigurumi Tips booklet included with this pattern.** See pg 8 for more help.

## COUNTING STITCHES

Stitches are referred to by their permanent position in a row. For example, the last stitch of a row remains the last stitch of the row, even if you turn the workpiece over. If directed to locate the 5<sup>th</sup> stitch of a row, count from the first stitch that you worked in that row, and move in the direction that the stitches were created, regardless of which side is facing you.

## CHAIN TENSION

Chains should not be worked too tightly. Keep your tension so that each chain stitch is the same length as a SC stitch. This will ensure the correct starting chain height for every row that is started with a chain, and the correct tension for chains or chain spaces that will have stitches worked into them. It is especially important for the starting chains on the feelers, to achieve the correct chain length.

## JOINING NEW YARN

**When directed to 'join with a SS':** Simply draw up a loop of yarn at the indicated stitch. Do not chain or use a slipknot. Begin working your very first stitch of the row/round into the same space as your SS.

## TYING OFF

When directed to tie off, cut the yarn to the instructed length for sewing (or just long enough to weave in), then simply pull the loop until the loose end comes free. Do not chain 1 first, to avoid making a knot.

## OVER-STUFFING CAUTION

The body should not be stuffed so much as to stretch the stitches and reveal the stuffing through the holes between them.

## REFERENCE PHOTOS

See pg 28 & 29 for reference pictures of the completed models.

**IF YOU'RE NOT MAKING A FURRY OR SHORT, SIMPLE SHONGOLOLO, IGNORE ALL THE PINK TEXT IN THIS PATTERN, BUT READ ALL THE OTHER TEXT!\***

**See pg 7 to prepare for making a furry millipede. When you see pink text like this, these instructions are specifically for the furry or short, simple millipede only.**

**\*If you're making a short, simple version of Shuttle, follow the pink directions for the furry millipede but substitute its fur yarn with DK yarn.**



# BONUS: FURRY MILLIPEDE!

Aside from the points below, all other preliminary info in the previous pages applies to this model too.

## BASIC INFORMATION

**Terminology:** US

**Size:** 48 cm long X 16 cm tall

**Difficulty:** Advanced

### YARN SUGGESTION

The type of fur yarn used for this model is eyelash yarn; it's sometimes classed as aran (weight 4) or bulky (weight 5). Use any fur yarn that you prefer and combine it with a plain DK yarn in a matching or contrasting colour. Combining fur yarn with a plain yarn helps with stitch visibility and makes it easier to unravel. When unravelling sts, go slowly and make sure each individual st is unravelled before doing the next st. The moment it snags, stop and undo the snag by pulling the knotted stitch away from your workpiece. Don't worry too much about making small mistakes, they'll likely be hidden by the fur and won't be detectable. Fudging minor accidents like a skipped st is permissible!

To make the furry version of Shuttle, follow the pattern as usual and **the directions written in pink** will tell you when and where the furry version differs from the plain version.

The furry version is for more advanced or adventurous crocheters, simply because fur is a little harder to work with. There are no additional pictures included for the furry version but it's similar enough to the plain version that you can use those images as a rough guide to help confirm you're on track.

Since fur yarn is more challenging, the furry millipede's shaping and construction have been simplified. Due to this, you'll need to jump back and forth between parts of the pattern to follow the modified assembly, so a hyperlink is provided at each jump for easy navigation throughout your project. When you see underlined text, such as **"(jump to pg 6)"**, **CLICK ON IT TO VISIT THAT PAGE!**

## YARN

ALLOCATION	BRAND	TYPE	THICKNESS	NAME	QTY
<b>Body Col A</b>	Blue Label Classic Pullskein	DK acrylic	2 m/g	Col 012 (variegated)	95 g 190 m
<b>Body Col B*</b>	Blue Label Pixels	DK polyester	1.2 m/g	Col 12 (variegated)	160 g 192 m
<b>Leg Col</b>	Kismet Lollipop Chunky**	Chunky acrylic	1.5 m/g	Aqua (light turquoise)	60 g 90 m
<b>Belly Col</b>	Elle Charity Chunky	Chunky acrylic	1.6 m/g	Banana (yellow)	40 g 64 m
<b>Feeler Col</b>	Elle Pure Gold	DK acrylic	2.6 m/g	Apricot (light orange)	7 g 18 m

\*To make a shorter, simpler millipede, substitute with non-furry DK yarn.

\*\*Can be substituted with Elle Charity chunky (i.e. the brand of yarn chosen for the Belly Col). Elle Charity chunky and Kismet Lollipop chunky both swatch to the same size following the gauge pattern on pg 5.

# SUPPORT & COMMUNITY

## GET HELP

All the information you need for this project is included in this document. If you need further assistance, visit the [Hooked on Sunshine](#) Facebook group to post your questions and get help.

## SHARING & INSPIRATION

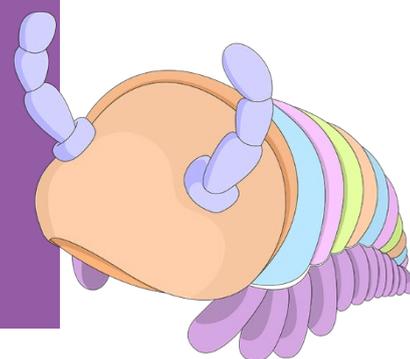
Share your work in progress or your completed project and browse others' using the [#ShuttleTheShongololo](#) hashtag on social media.

## WHAT'S NEXT?

Find more projects, including freebies, at [Projectarian.com](#) and [Projectarian Shop](#). Follow along on [Instagram](#) to see sneak peeks of upcoming patterns!



Hi, I'm Shuttle! I'll be popping in throughout your project to give you helpful tips and hints. Ready? Let's begin!





# FEELERS, CHIN & HEAD

## FEELERS

**Make 2**

**Use DK yarn and a 2 mm hook**

**Your chain tension is important here! See pg 6 for a reminder of how to achieve the correct tension.**

**R1:** Using Feeler Col and leaving a 20 cm starting tail, ch16. Starting in the 2<sup>nd</sup> ch from your hook, work 6SC all into the same ch. Join with a SS in the 1<sup>st</sup> SC. (6)



**R2:** Ch1, SC-inc X 6. Join with a SS in the 1<sup>st</sup> SC. (12)

**R3:** Ch1, working in BLO, \*1SC, SC-inc\* X 6. Join with a SS in the 1<sup>st</sup> SC. (18)



**R4:** Ch1, working in FLO, 18SC. (18)

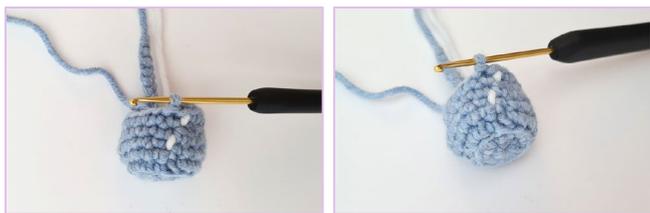
Continue WITR and use a RSM.

**R5:** 18SC. (18)

**R6:** \*4SC, BLO-dec\* X 3. (15)

**R7:** 15SC. (15)

2SS to taper off the round. Tie off.



### FEELER SEGMENT 1

**R1:** Return to the unworked loops of R2. In the last SC of R2, insert your hook from the edge side toward the MR as illustrated. Join Feeler Col with a SS. Ch1, 12SC. **Be careful not to work into the SS of R2; make sure you only have 12SC.** (12)



Continue WITR and use a RSM.

**R2:** SC-dec, 4SC, SC-dec, 4SC. (10)  
**R3-4:** 10SC. (10)  
**R5:** SC-inc, 9SC. (11)  
**R6:** 11SC. (11)  
**R7:** 1SC, SC-inc, 9SC. (12)  
**R8:** 12SC. (12)  
**R9:** 2SC, SC-inc, 9SC. (13)  
**R10:** 13SC. (13)

Stuff the segment lightly (fill it softly and don't compact the stuffing). The aim of the stuffing is only to prevent the tube from collapsing and if you stuff each segment lightly, then the feeler will still be able to bend in the end. You will know by the middle of segment 2 if you have overstuffing it, if the stuffing prevents you from bending the segments.

As you continue on to the next segments, stuff them just as lightly.

**R11:** SC-dec X 6, 1SC. (7)  
**R12:** Tightly work 7SS to cinch the round. (7)

**Do not tie off.**



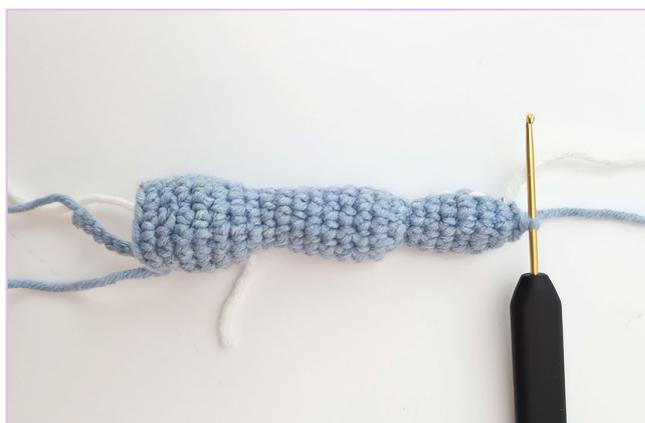
### FEELER SEGMENT 2

**R13:** Working in FLO, SC-inc X 2, 5SC. (9)  
**R14-15:** 9SC. (9)  
**R16:** 2SC, SC-inc, 4SC, SC-inc, 1SC. (11)  
**R17:** SC-inc, 4SC, SC-inc, 5SC. (13)

Stuff the segment lightly.

**R18:** SC-dec X 6, 1SC. (7)  
**R19:** Tightly work 7SS to cinch the round. (7)

**Do not tie off.**



### FEELER SEGMENT 3

**R20:** Working in FLO, 2SC, SC-inc X 2, 3SC. (9)  
**R21-22:** 9SC. (9)  
**R23:** 2SC, SC-inc, 4SC, SC-inc, 1SC. (11)  
**R24:** SC-inc, 4SC, SC-inc, 5SC. (13)

Stuff the segment lightly.

**R25:** SC-dec X 6, 1SC. (7)  
**R26:** Tightly work 7SS to cinch the round. (7)



Tie off. Working in FLO, sew the opening closed like a drawstring. Weave in the loose ends but keep the one on the starting chain free.

Flip the base up towards segment 1, turning the base inside-out (it might be a tight squeeze) and making a crisp bend where loops are left unworked on R3. Then roll the edge to tuck it in between the base and segment 1. **Skip ahead now to the HEAD ([jump to pg 12](#)).**

**(REMEMBER THAT ALL PINK TEXT LIKE THIS IS FOR THE FLUFFY OR SHORT, SIMPLE MILLIPEDE ONLY! IGNORE ALL THE PINK TEXT IN THE PATTERN IF YOU'RE MAKING A PLAIN MILLIPEDE, AND READ ALL THE OTHER TEXT).**



## CHIN

Use 2 threads of DK yarn together and a 4 mm hook. **Or use Belly Col instead of Body Col A & B.**

**Do not weave the loose end in; keep it for identifying R1.**

**R1:** Using Body Col A & B, ch5. Starting in the 2<sup>nd</sup> ch from your hook, SC-inc, 2SC, SC-inc. (6)

**R2:** Ch2, turn. HDC-inc, 4SC, HDC-inc. (8)

**R3:** Ch2, turn. HDC-inc, SC-inc, 4SC, SC-inc, HDC-inc. (12)

**R4:** Ch2, turn. HDC-inc, 10SC, HDC-inc. (14)

**R5:** Ch2, turn. 1HDC, 12SC, HDC-inc. (15)

**R6:** Ch2, turn. 1HDC, 13SC, 1HDC. (15)

**R7:** Ch2, turn. HDC-inc, 13SC, 1HDC. (16)

**R8:** Ch1, turn. SC-inc, 14SC, SC-inc. (18)

**R9-10:** Ch1, turn. 18SC. (18)

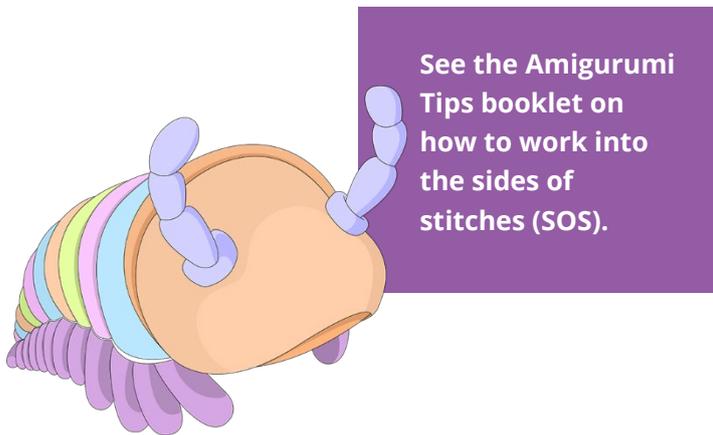
**Do not tie off.**

**Place a green marker in the 1<sup>st</sup> st and a red marker in the last st of R10 to help with working the edge later. Insert a red marker in the 9<sup>th</sup> st and out the 10<sup>th</sup> st (*this marker is pictured on pg 12 if you need an illustration for reference*). Skip ahead now to the BELLY ([jump to pg 19](#)).**



## EDGE OF THE CHIN

**Remove the markers as you work into their sts. Start in the red marked st and end in the green marked st on R10. Do not ch1 to begin and do not SS at the end. Mark the 1st and last SC of the edge row with a blue marker as you work them.**



Ch1. Starting in R10 and finishing in R1, work 15SC in SOS across the 10 rows. Working into the ch, 4SC.



Starting in R1 and finishing in R10, work 15SC in SOS across the 10 rows. SS into the 1<sup>st</sup> SC of R10. The chin is RS up. (34)



**Do not tie off. Skip ahead now to the SECOND EDGE OF THE BELLY (jump to pg 20).**

Tie off.

Mark the 1<sup>st</sup> and last SC of the edge row with a blue marker. Turn the piece over and on R10, insert a red marker in the 9<sup>th</sup> st and out the 10<sup>th</sup> st. Do not remove these markers until directed.



## HEAD

Use 2 threads of DK yarn together and a 4 mm hook. Or use 1 thread of DK yarn with 1 thread of fur held together and a 4 mm hook (if you're making the short, non-furry version, use 2 threads of DK).

**R1:** Using Body Col A & B, 3SC in MR. (3)

**R2:** Ch1, turn. SC-inc X 3. (6)

**R3:** Ch1, turn. \*1SC, SC-inc\* X 3. (9)

**R4:** Ch1, turn. \*2SC, SC-inc\* X 3. (12)

**R5:** Ch1, turn. \*3SC, SC-inc\* X 3. (15)

**R6:** Ch1, turn. \*4SC, SC-inc\* X 3. (18)

**R7:** Ch1, turn. \*5SC, SC-inc\* X 3. (21)

**R8:** Ch1, turn. \*6SC, SC-inc\* X 3. (24)

**R9:** Ch1, turn. \*7SC, SC-inc\* X 3. (27)

**R10:** Ch1, turn. \*8SC, SC-inc\* X 3. (30)

**R11:** Ch1, turn. \*9SC, SC-inc\* X 3. (33)

**R12:** Ch1, turn. \*10SC, SC-inc\* X 3. **If you struggle to identify your sts, mark the 9<sup>th</sup> and 28<sup>th</sup> st for attaching the feelers.** (36)

**R13-17:** Ch1, turn. 36SC. (36)

**Do not tie off.**

**Place a green marker in the 1<sup>st</sup> st and a red marker in the last st of R17 to help with working the edge later. Skip ahead now to the BODY (jump to pg 14).**

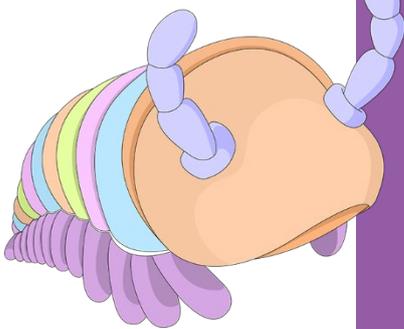
### EDGE OF THE HEAD

Remove the markers as you work into their sts and work the MR's loose end in as you go. Start in the red marked st and end in the green marked st on R17. Do not ch1 to begin and do not SS at the end. If you struggle to identify your sts, mark the 1<sup>st</sup> and last SC as you work them.

Ch1. Starting in R17 and finishing in R1, work 17SC evenly in SOS. Then starting in the other end of R1 and finishing in the other end of R17, work 17SC evenly in SOS. SS into the 1<sup>st</sup> SC of R17. The head is RS up. (34)



In other words, count 6 rows away from the last row (including the last row), then place the feelers symmetrically with 18 sts between them, threading the loose ends into the st spaces between the 6<sup>th</sup> and 7<sup>th</sup> rows. (If you marked your sts, one feeler's chain should be inserted between the 9<sup>th</sup> & 10<sup>th</sup> sts, and one between the 27<sup>th</sup> & 28<sup>th</sup> sts).



Note that there are 34 sts on the edge of the head and on the edge of the chin! These are to be matched up when you join the two pieces together.

The head is WS up. Do not tie off. Skip ahead now to the **SECOND EDGE OF THE BODY** ([jump to pg 17](#)).

Tie off.

## ATTACHING THE FEELERS TO THE HEAD

Make sure your workpiece is RS facing up (when it's RS up, you will see the WS of the sts on the edge row).

The feelers should be attached to the RS of your workpiece.

The starting chain and loose end of each feeler should be threaded into the head, 6 rows away from the last row, with 18 sts between the 2 feelers' chains on the 6<sup>th</sup> row.

Note that the feelers bend more easily in one direction than any other, and bend them that way. Then rotate them so they point toward each other on the head (*see previous image*).

To attach a feeler, pull its chain to hold its base against the head, then sew the feeler on using one Body Col thread of 50 cm and working into the unworked loops of R3 (**do not use the chain's loose end for sewing**). Begin on the WS of the head near the feeler and initially sew a knot to attach your sewing thread to the head, leaving a loose end for weaving in. Then push your needle through to the RS of the head and sew the feeler in place. When complete, push your needle back to the WS of the head, then weave in the loose ends. Sew both feelers by the same method.



Now proceed with the **CHIN** ([jump to pg 11](#)).



# BODY

Continued from the last row of the head. You can make the body any length you want, so long as the number of rows is a multiple of 4 (excluding the head). Keep in mind that the head and back end will add a small amount of extra length.

R1: Ch1, turn. \*8SC, SC-inc\* X 4. (40)

R2-40: Ch1, turn. 40SC. On your last SC of R40, change to 2 threads of Body Col A yarn. To do this, proceed like a colour change (by the method described in the Amigurumi Tips booklet), but only drop your fur yarn, keep your DK yarn, add a new thread of Body Col A to replace the fur, then complete your SC using those 2 threads of Body Col A. TIP: when you add the new yarn, the tail end should go over the back of your hook. (40)

Do not tie off and do not weave in the loose ends. Mark the 1<sup>st</sup> and last SC of R40 for easy visibility when working the back end later. Skip ahead now to the **FIRST EDGE OF THE BODY** ([jump to pg 16](#)).

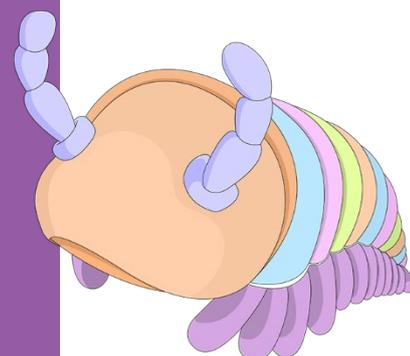
Use 2 threads of DK yarn together and a 4 mm hook for all the pieces in this chapter

## COLLUM

The collum is the first, longer segment at the front of the body

R1: Using Body Col A & B, ch41, controlling your tension so that each ch is the same length as a SC. Starting in the 2<sup>nd</sup> ch from your hook, 40SC. (40)

For a defined contrast between the collum, head and rest of the body, use a different colour of Colour Crush than the head to begin the collum. Switch colour again when you start the body.



**R2:** Ch1, turn. Working in BLO, 4SC, SC-inc, 9SC, SC-inc, 10SC, SC-inc, 9SC, SC-inc, 4SC. This is the WS of the body. (44)

**R3-15:** Ch1, turn. Working in both loops again, 44SC. (44)

**R16:** Ch1, turn. 4SC, BLO-dec, 9SC, BLO-dec, 10SC, BLO-dec, 9SC, BLO-dec, 4SC. (40)

**R17:** Turn (**do not ch1**). Tightly work 40SS to cinch the row. (40)

**Do not tie off.**



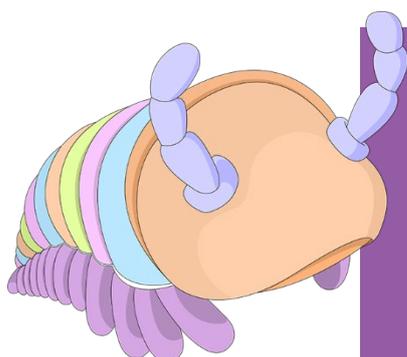
## MAIN BODY SEGMENT

**R1:** Ch1, turn. Working in BLO, 4SC, SC-inc, 9SC, SC-inc, 10SC, SC-inc, 9SC, SC-inc, 4SC. (44)

**R2-6:** Ch1, turn. Working in both loops again, 44SC. (44)

**R7:** Ch1, turn. 4SC, BLO-dec, 9SC, BLO-dec, 10SC, BLO-dec, 9SC, BLO-dec, 4SC. (40)

**R8:** Turn (**do not ch1**). Tightly work 40SS to cinch the row. (40)



The body is a large, repetitive piece so double check your work regularly as you continue, making sure it's correct all the way.



Repeat R1-8 until the body is the desired length, keeping in mind that the head and back end will add a small amount of extra length; roughly another 2 segments' worth. Once the body is long enough, finish on a R8 and tie off. **Do not weave the loose end in.** If you struggle to identify your sts, mark the 1<sup>st</sup> and last SS as you crochet your very last row of the main body.

The illustrated model has 32 body segments in total, which along with the collum will require 136 legs to complete (4 legs per body segment plus 8 legs for the collum).



## ATTACHING THE HEAD TO THE BODY

With the body and the head both WS up, work into R17 of the head and into the unworked loops of R1 of the collum for this row, as follows: With the pieces orientated as illustrated, insert your hook into the 1<sup>st</sup> available st of the head and then into the 1<sup>st</sup> available st loop of the collum.



Using Body Col A & B, join with a SS, ch1. \*Working into both pieces to join them as you go, 9SC. Working into the **same** st on the head and the **next** st on the body, 1SC\* X 4. **Ch1**, tie off. (40)



## FIRST EDGE OF THE BODY

**Ch1. Working in SOS, 1SC into each of the body's 40 rows. (40) Do not tie off. Now proceed with the EDGE OF THE HEAD (jump to pg 12).**

**If you struggle to identify your sts, mark your 1<sup>st</sup> SC of this row as you work it.** On the body, begin at the back LHS of the body, and join Body Col A & B with a SS in the 1<sup>st</sup> SS of the last row. Ch1, working in SOS, \*1SC in each of the segment's 8 rows\*. **You should begin by working into the side of the very last SS row (R8), and be careful not to skip the next row (R7). Make sure to work into each SC row and SS row as you go.**



**When you begin working into the 2<sup>nd</sup> segment, make sure to begin in the SS row (R8). Your SC will land to the right of the ridge once it's worked.** Repeat on each segment (32 times in total to match the illustrated model). **Pay careful attention to the distribution of your sts into the rows as you go and note that the last SC of each set of 8 gets worked into the space directly before the ridge on each segment. Noting this will help with distributing your sts in the same way when you work the second edge of the body.** When you reach the collum, work 1SC into each of the next 16 rows. Skip the last row and attach the chin to the head as described in the following directions. (272)

**Do not tie off.**



## ATTACHING THE CHIN TO THE HEAD

With the chin RS facing up, insert your hook into RS of the 1<sup>st</sup> marked st as illustrated. Then insert your hook into WS of the last SC on the head's edge, and into the 1<sup>st</sup> available ch on R1 of the main body. All 3 pieces are now on your hook, work 1SC to join them. **Remember not to remove the markers until directed.**



Continue working into the head's edge and the chin's edge, crocheting the pieces together and work 32SC to continue joining them.



For the last st, insert your hook into the marked st on the chin, into the next st on the head's edge, and into the last available ch on R1 of the main body. Work 1SC to complete the join. (34)

**Do not tie off.**



## SECOND EDGE OF THE BODY

**Working in SOS, 1SC into each of the body's 40 rows. (40)**

**Ch1, tie off. Now proceed with ATTACHING THE FEELERS TO THE HEAD ([jump to pg 13](#)).**

On the body, skip the 1<sup>st</sup> row, then working in SOS, 1SC in each of the collum's rem 16 rows (ensure that you finish with your 16<sup>th</sup> st in the row of SS). **The 16<sup>th</sup> st will land slightly to the left of the ridge once it's worked.**

**As you go, take special care to distribute your sts into the rows in the same manner as you did the previous edge, so that both edges match, in order for the legs to be properly aligned. For example, the first SC of each set should be worked into the space directly after the ridge on each segment. \*1SC in each of the segment's 8 rows\*. Repeat on each segment (32 times in total to match the illustrated model). **Your last SC should land in the last SS on the last row of the body. (272)****



**Tie off. If you struggle to identify your sts, mark your last SC of this row.**



# LEGS

Use aran yarn and a 4 mm hook

**Make 20 legs**

**Make 4 legs per body segment and another 8 legs in total for the collum (136 in total to match the illustrated model)**

**R1:** Using Leg Col, 8SC in MR. (8)

Continue WITR and use a RSM. Keep your workpiece WS out, then after about 3 rounds, weave in the starting thread and flip the piece RS out.

**R2-9:** 8SC. (8)

**Ch1**, tie off. Remove the RSM and use it for the next leg.

Stuff each leg  $\frac{3}{4}$  full, so that they're easy to pinch closed for crocheting onto the body later.

**Skip ahead now to [ATTACHING THE LEGS \(jump to pg 22\)](#).**



# BELLY

Use chunky yarn and a 4 mm hook  
Work your SS with the same tension as a SC

Continued from the last row of the chin. Make the belly the same number of rows as you made the body (excluding the chin).

R1-40: Ch1, turn. 18SC. (18)

Do not tie off. Skip ahead now to the FIRST EDGE OF THE BELLY (jump to pg 20).

## COLLUM

R1: Using Belly Col, ch19. Starting in the 2<sup>nd</sup> ch from your hook, 18SC. (18)

R2-14: Ch1, turn. 18SC. (18)

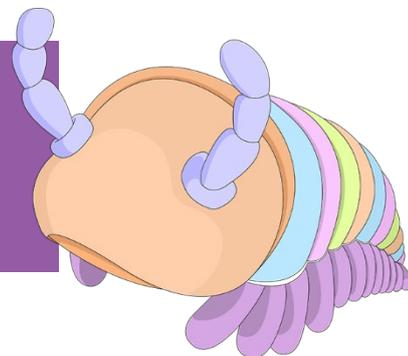
R15: Ch1, turn. 18SS. (18)

Do not tie off.

Double check your work regularly as you go to make sure it's correct.

If you struggle to identify your sts, mark each end of your SS row with a clip-on marker or a piece of thread as you go.

See the Amigurumi Tips booklet on how to crochet into a SS.



## BELLY SEGMENT

R1: Ch1, turn. 18BLO-SC. (18)

R2-7: Ch1, turn. 18SC. (18)

R8: Ch1, turn. 18SS. (18)

Repeat R1-8 until you have 1 belly segment for each body segment (32 times in total to match the pattern). **Do not tie off at the end of the last segment.**

The side of the belly with ridges is the RS. Place a marker on this if needed to help you keep track of the RS.

## FIRST EDGE OF THE BELLY

**Ch1. Working in SOS, 1SC into each of the belly's 40 rows. (40)**

**Do not tie off. Now proceed with the EDGE OF THE CHIN ([jump to pg 11](#)).**

Ch1. Working in SOS, \*1SC into each of the segment's 8 rows.\* **You should begin by working into the side of the very last SS row (R8), and be careful not to skip the next row (R7). Make sure to work into each SC row and SS row as you go (as a guide, remember that the SS row is the 1<sup>st</sup> row of each segment and the collum).** Repeat on each segment (32 times in total to match the pattern). When you reach the collum, work 1SC into each of the rem 15 rows, then work 1SC into the ch. (272)



## ATTACHING THE BELLY TO THE CHIN

Flip the belly over. With the chin RS facing up, align the 1<sup>st</sup> row of the belly (the chain row) with the last row of the chin.



**Do not ch1.** Working into both pieces at the same time, crochet the pieces together, starting in the 1<sup>st</sup> available SC on the chin (this is the st next to the blue marker) and in the same ch where you worked your last SC of the belly's edge. Work 18SC to join them, using up all the sts on both pieces. (18)



## SECOND EDGE OF THE BELLY

**Working in SOS, 1SC into each of the belly's 40 rows. (40)**

**Do not tie off. Attach a marker to prevent unravelling, now proceed with the LEGS ([jump to pg 18](#)).**

**Do not ch1.** Work 1 more SC into the same space as your previous st (into the ch). Starting in the 1<sup>st</sup> row of the collum and working in SOS, 1SC into each of the collum's 15 rows (as a guide, remember that the SS row is the 15<sup>th</sup> row and when you work in to the segments, it's the 8<sup>th</sup> row).



\*1SC into each of the segment's 8 rows.\*

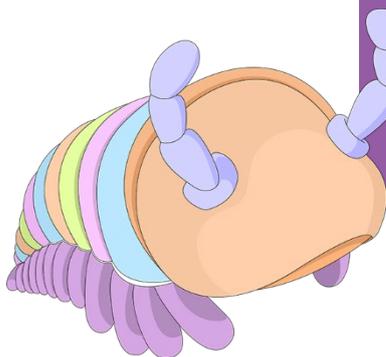


Repeat on each segment (32 times in total to match the illustrated model). **Do not tie off**, continue with attaching the legs. (272)





# ATTACHING THE LEGS



Make sure the belly and body aren't twisted before you begin.

## Continued from the second edge of the belly

In this step, you'll attach the legs to the belly while working the belly onto the body at the same time, thus joining all three separate features together at once.

On the belly, ch1, turn. On a leg, insert your hook into the 7<sup>th</sup> st and out of the 6<sup>th</sup> st.



Then working on RS of the belly, insert your hook into the last SC that you worked. Then working on WS of the body, insert your hook into FLO of the 1<sup>st</sup> SC of the 1<sup>st</sup> edge row (this is the millipede's back left corner and remember that the 1<sup>st</sup> SC of this edge was worked into the row of SS on the non-furry millipede). All 3 pieces are on your hook. Work 1SC to join them.



Continue working by this manner into all 3 pieces and work 3 more SC to complete the leg join, using up all the sts on the leg's opening. I.e. next, insert your hook into the 8<sup>th</sup> st and out of the 5<sup>th</sup> st on the leg, then insert your hook in the next st on the belly and into FLO of the next st of the body. Work 1SC. Work the loose end in as you work the next 2SC, then tug the loose end firmly to pull up any slack and tuck it between the belly and the body before you begin attaching the next leg.



Continue attaching all the legs in the same manner. **Optional:** To avoid having to work the loose ends in as you go, begin the leg attachment by inserting your hook into the 3<sup>rd</sup> st and out the 2<sup>nd</sup> st instead, then proceed as normal. When you reach the loose end, simply tuck it between the body and belly, do not work it in as you go. See the 'TIPS' on attaching the legs.

**Attach 10 legs in total and you should finish in the st before the markers on the belly and the body. Remove the markers as you work into their sts. Now attach the chin to the head. To do this, continue by the same method as attaching the legs, but only working into the chin and head pieces, crocheting into both loops on the chin and FLO on the head for 34 sts on each piece, finishing in the marked sts on the belly and the body. There will be 40 sts remaining now on the belly and body. Skip ahead now to TETHERING THE FEELERS TO THE CHIN ([jump to pg 24](#)).**

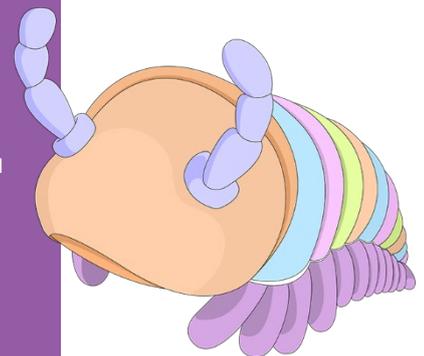
## TIPS

As a guide to confirm you're on track as you go, there should be 2 legs attached neatly into every segment, using up 4SC per leg on the belly and body. To help avoid skipping sts on the belly and body or accidentally working into them twice, place a marker on the 4<sup>th</sup> st of belly edge and body edge, work 4SC to join a leg, then move the markers on by 4 sts. This will prevent misalignment as you go.



Visually, you may prefer to note that after attaching the 2<sup>nd</sup> leg to each segment, you should have 1 more SC available before the ridge on the belly and on the body.

Be mindful of working into FLO on the body and check your work often to ensure you haven't accidentally worked into both loops.



## CROSSING THE CHIN SEAM

Once the legs are all attached on one side of the body and you've reached the chin seam, insert your hook in the next st on the chin seam, and into the marked st on the chin (insert your hook from the RS as shown, not from the underside of the chin).



Work 1SS and remove the marker. Along the chin seam, 16SS (**work your SS with the same tension as a SC, these SS should not squeeze the chin seam at all**).



Insert your hook in the next st on the chin seam and into the marked st on the chin (from the RS as shown), 1SS and remove the marker.



Hook the same loose end and pull it back inside the head.



Do the same for the second feeler, but pull this loose end out the LHS of the marker and back into the RHS.



Remove the red marker. Inside the head, tie the loose ends in a secure knot. This should serve to form noticeable dents in the face at the base of each feeler, thus shaping the head and also preventing the chin from bulging outwards.

## TETHERING THE FEELERS TO THE CHIN

Remove the loop from your hook and attach a marker to prevent unravelling. With the body still belly-up and the head facing away from you, insert your hook on the RHS of the red marker, hook the chain's loose end from the feeler on your RHS and pull it up through the stitch until the 1<sup>st</sup> ch touches the chin on the inside of the head. Then insert your hook on the LHS of the marker, but from the inside of the head this time.



*(Completed model)*

**Skip ahead now to CONTINUING THE LEG ATTACHMENT ([jump to pg 25](#)).**

## CONTINUING THE LEG ATTACHMENT

Remove the marker and place the loop back on your hook. By the same method as before, continue attaching legs to the belly while working the belly onto the body at the same time, remembering to work in FLO of the body.

**Once the last 10 legs are attached and all the sts on the edge of the belly and the body are used up, tie off and stuff the body, then skip ahead to the BACK END ([jump to pg 26](#)).**

To help you keep track visually: Since you're working in the opposite direction this time, the last SC that you use up on the belly and body to join the last leg of each pair will be 1SC beyond the ridge. Stuff the body softly as you go, filling it just enough to keep its shape. Do not compact the stuffing if you're aiming for a giant shongololo with a floppy body.



Once all the legs are attached, and all the sts on the edge of the belly and body are used up, tie off.



# BACK END

**Use Body Col A & B and a 4 mm hook**

Remove the markers as you work into their sts. On the RS of the body, join with a SS in the last SC of the last row (identified by the loose ends on the shongololo's back LHS). Ch1, 40SC. Working in SOS, 1SC into the next row on the body, 1SC into the next row on the belly. Working into the last row of the belly, 18SC. Working in SOS, 1SC into the next row on the belly, 1SC into the next row on the body. (62)

Continue WITR and use a RSM. Stuff the body as you go.

Skip ahead now to R2-14 of the BACK END ([jump to pg 27](#)). TIP: If you prefer, use normal decreases instead of invisible ones while working the back end, since the fur will hide any holes between the stitches.

On the RS of the body, on the last row (this is the SS row), join with a SS in FLO of the 1<sup>st</sup> SS (if you're not sure which loops are the SS, find where you tied off and trace the last SS of the row, that will identify how the SS loops of this row look). Ch1, 40FLO-SC.



Working in SOS, 1SC into the next row on the body, 1SC into the next row on the belly.



Working into the SS on the last row of the belly, 18FLO-SC.



Working in SOS, 1SC into the next row on the belly, 1SC into the next row on the body. (62)



Continue WITR and use a RSM. Stuff the body as you go.

**R2:** \*8SC, SC-dec\* X 6, 2SC. (56)

**R3:** \*12SC, SC-dec\* X 4. (52)

**R4:** \*11SC, SC-dec\* X 4. (48)

**R5:** \*10SC, SC-dec\* X 4. (44)

**R6:** \*9SC, SC-dec\* X 4. (40)

**R7:** \*8SC, SC-dec\* X 4. (36)

**R8:** \*7SC, SC-dec\* X 4. (32)

**R9:** \*6SC, SC-dec\* X 4. (28)

**R10:** \*5SC, SC-dec\* X 4. (24)

**R11:** \*4SC, SC-dec\* X 4. (20)

**R12:** \*3SC, SC-dec\* X 4. (16)

**R13:** \*2SC, SC-dec\* X 4. (12)

**R14:** \*1SC, SC-dec\* X 4. (8)

**Tie off.** Using 1 of the loose ends and working in FLO, sew the opening closed like a drawstring and weave in the loose ends.

**R15:** SC-dec X 4. (4)

Tie off. Using 1 of the loose ends and working in FLO, sew the opening closed like a drawstring and weave in the loose ends.



## PROJECT COMPLETE!

Congratulations, your giant critter is finished! Now reward yourself with a nap using Shuttle as a pillow. If you like this style of project, I highly recommend trying **Apollo the Octopus**, whose pattern is also a marathon, and a few notches more challenging than Shuttle.



Post your Shuttle project on social media and tag **@Projectarian** or **@JessieVanIn** to show me! Use **#ShuttleTheShongololo** to make your post discoverable and browse the hashtag to see more pictures.

See you again soon for the next project!

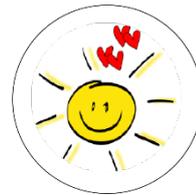
# GALLERY







YOU CAN INTERACT WITH ME, SHARE YOUR PROJECTARIAN PROJECTS, AND SEE MORE DESIGNS ON THESE PLATFORMS



PROJECTARIAN

RAVELRY

HOOKEO ON  
SUNSHINE

WITH SPECIAL THANKS TO THE TEAM AT HOOKEO ON SUNSHINE FOR TESTING THIS PATTERN

