



Sea Stars Quilt

**Featuring Floral Reef by Tula Pink
for FreeSpirit Fabrics**

Techniques: Foundation Paper Piecing,
4-at-a-time Flying Geese

Skill Level: Advanced Beginner

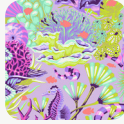
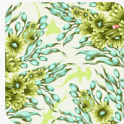
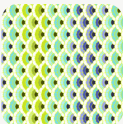
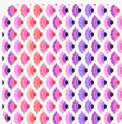
Finished Size:
78" x 78" (1.98m x 1.98m)

Finished Block:
18" x 18" (45.72cm x 45.72cm)

Project designed by: Stacey Day

All possible care has been taken to ensure the accuracy of this pattern. We are not responsible for printing errors or the manner in which individual work varies. Please read the instructions carefully before starting this project. If kitting, it is recommended a sample is made to confirm accuracy.

FABRIC REQUIREMENTS (Tech edited by: Alison M. Schmidt)

	Design	Color	Item ID	Yardage	Swatches
A	Reef What You Sew	Marine	PWTP264.MARINE*	¼ yards (0.23m)	
B	Reef What You Sew	Coralline	PWTP264.CORALLINE	½ yards (0.46m)	
C	Reef What You Sew	Ultraviolet	PWTP264.ULTRAVIOLET*	¼ yards (0.23m)	
D	Friends & Anemones	Seafoam	PWTP265.SEAFOAM*	¼ yards (0.23m)	
E	Friends & Anemones	Coralline	PWTP265.CORALLINE*	¼ yards (0.23m)	
F	Friends & Anemones	Ultraviolet	PWTP265.ULTRAVIOLET*	¼ yards (0.23m)	
G	Lil Shelly	Marine	PWTP266.MARINE*	¼ yards (0.23m)	
H	Lil Shelly	Seagrass	PWTP266.SEAGRASS*	¼ yards (0.23m)	
I	Lil Shelly	Ultraviolet	PWTP266.ULTRAVIOLET*	¼ yards (0.23m)	
J	Shadow Sharks	Marine	PWTP267.MARINE*	¼ yards (0.23m)	
K	Shadow Sharks	Seagrass	PWTP267.SEAGRASS*	¼ yards (0.23m)	
L	Shadow Sharks	Delphine	PWTP267.DELPHINE*	¼ yards (0.23m)	
M	Shadow Sharks	Ultraviolet	PWTP267.ULTRAVIOLET*	¼ yards (0.23m)	
N	School Crossing	Seafoam	PWTP268.SEAFOAM*	¼ yards (0.23m)	
O	School Crossing	Seagrass	PWTP268.SEAGRASS*	¼ yards (0.23m)	
P	School Crossing	Delphine	PWTP268.DELPHINE*	¼ yards (0.23m)	
Q	Aquatic Lace	Marine	PWTP269.MARINE	⅓ yards (0.30m)	
R	Aquatic Lace	Ultraviolet	PWTP269.ULTRAVIOLET	⅓ yards (0.30m)	
S	Riptide	DeepDive	PWTP270.DEEP Dive	2¼ yards (2.06m)	
T	Smooth Sailing	DeepDive	PWTP271.DEEP Dive**	⅝ yards (0.57m)	

* If planning to fussy cut the centers of the medium stars, to allow for a variety of motifs, increase yardage for **Fabrics A, C and D** to ⅝ yard each, **Fabrics J-M** to ¾ yard each, and **Fabrics E-I and N-P** to ⅓ yard each.

**includes binding

continued...

FABRIC REQUIREMENTS (continued...)

Design	Color	Item ID	Yardage
U Lighthouse Windows	Marine	PWTP273.MARINE	1/8 yards (0.11m)
V Lighthouse Windows	Seagrass	PWTP273.SEAGRASS	1/8 yards (0.11m)
W Lighthouse Windows	Delphine	PWTP273.DELPHINE	1/8 yards (0.11m)
X Lighthouse Windows	Ultraviolet	PWTP273.ULTRAVIOLET	1/8 yards (0.11m)
Y Designer Essential Solids	Legendary	CSFSESS.LEGENDARY	2 yards (1.83m)
Z Designer Essential Solids	Aegean	CSFSESS.AEGEA	2 yards (1.83m)
AA Designer Essential Solids	Seabreeze	CSFSESS.SEABR	1 yard (0.91m)
AB Designer Essential Solids	Whimsy	CSFSESS.WHIMSY	1/2 yards (0.46m)
AC Ghost Droplettes	Paper	PWTP252.PAPER	1/2 yards (0.46m)

Swatches



Backing (Purchased Separately)

44" (1.12m) wide

Shadow Sharks	Seagrass	PWTP267.SEAGRASS	5 5/8 yards (5.14m)
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OR

108" (2.74m) wide

Big Shelly	Marine	QBTP021.MARINE	2 1/2 yards (2.29m)
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ADDITIONAL REQUIREMENTS

- 100% Cotton Thread
- 86" x 86" (2.18m x 2.18m) batting
- 8 1/2" x 11" paper for foundation patterns

PREPARATION

- 1 Print 60 copies of the foundation pattern (page 19) at 100% actual size on your preferred foundation paper. Measure the test square to make sure they are the correct size.
- 2 Trim each foundation pattern on the outermost solid line. If desired, pre-fold along the inner solid stitching lines to make it easier to remove the papers later.

CUTTING

WOF = Width of Fabric; LOF = Length of Fabric;

HST = Half-square Triangle

Notes:

- **Fabric S** is fussy cut to achieve the color wash of the flying geese and is reflected in the yardage requirements.
- The remaining fabrics are not intentionally fussy cut, but you can choose to cut your favourite motif for the center of each star from within your quarter-yard pieces.
- If you wish to fussy cut all the star centers, increase the required yardage per the note following the fabric requirements.

Fabrics A, and C-P, cut from each:

- (1) $6\frac{1}{2}" \times 6\frac{1}{2}"$
- (4) $3\frac{7}{8}" \times 3\frac{7}{8}"$

Fabric B, cut:

- (1) $9\frac{1}{2}" \times \text{WOF}$; subcut
 - (1) $9\frac{1}{2}" \times 9\frac{1}{2}"$
 - (4) $5\frac{3}{8}" \times 5\frac{3}{8}"$
- (1) $6\frac{1}{2}" \times \text{WOF}$; subcut
 - (1) $6\frac{1}{2}" \times 6\frac{1}{2}"$
 - (4) $3\frac{7}{8}" \times 3\frac{7}{8}"$

Fabrics Q and R, cut from each:

- (1) $3\frac{1}{2}" \times \text{WOF}$; subcut
 - (8) $3\frac{1}{2}" \times 3\frac{1}{2}"$
- (2) $2\frac{3}{8}" \times \text{WOF}$; subcut
 - (32) $2\frac{3}{8}" \times 2\frac{3}{8}"$

Fabric S, fussy cut as shown in the cutting diagram:

(2) $3\frac{1}{2}$ " x LOF strips each from the lime, aqua, periwinkle, violet, fuchsia, and coral parts of the rainbow ombré (12 total), labeling them S1-S6 as shown. From each LOF strip, subcut

(10) $3\frac{1}{2}$ " x $6\frac{1}{2}$ " (20 of each color total).

Tip: You may find it easier to cut lengthwise from the lime color at the center first, then work outwards towards the selvage edge. Keep the cut rectangles grouped by colors (S1-S6).

Fabric T, cut:

Enough $2\frac{1}{2}$ "-wide bias strips to make 330" (8.38m) of bias binding

Fabrics U-X, cut from each:

(1) $3\frac{1}{2}$ " x WOF; subcut

(2) $3\frac{1}{2}$ " x $3\frac{1}{2}$ "

(8) $2\frac{3}{8}$ " x $2\frac{3}{8}$ "

Fabric Y, cut:

(2) $7\frac{1}{4}$ " x WOF; subcut

(8) $7\frac{1}{4}$ " x $7\frac{1}{4}$ "

(1) $4\frac{1}{4}$ " x WOF; subcut

(4) $4\frac{1}{4}$ " x $4\frac{1}{4}$ "

(6) 4" x WOF; subcut

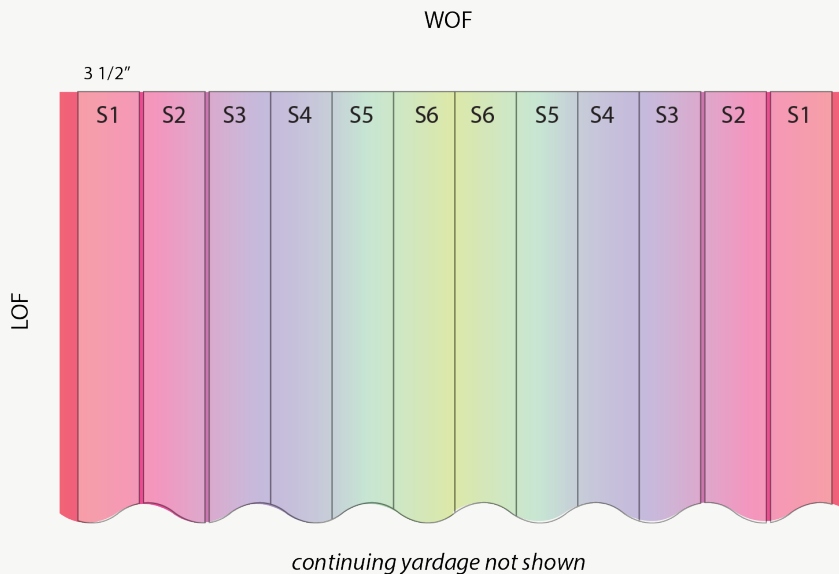
(56) 4" x 4", then cut each diagonally once to yield (112) HSTs

(3) $3\frac{1}{2}$ " x WOF cut

(32) $3\frac{1}{2}$ " x $3\frac{1}{2}$ "

(1) 2" x WOF; subcut

(16) 2" x 2"



Fabric Z, cut:

- (1) 7¼" x WOF; subcut
 - (4) 7¼" x 7¼"
- (1) 4¼" x WOF; subcut
 - (8) 4¼" x 4¼"
- (6) 4" x WOF; subcut
 - (56) 4" x 4", then cut each diagonally once to yield (112) HSTs
- (2) 3½" x WOF; subcut
 - (16) 3½" x 3½"
- (2) 2" x WOF; subcut
 - (32) 2" x 2"

Fabric AA, cut:

- (1) 7¼" x WOF; subcut
 - (4) 7¼" x 7¼"
- (1) 4¼" x WOF; subcut
 - (8) 4¼" x 4¼"
- (1) 4" x WOF; subcut
 - (8) 4" x 4", then cut each diagonally once to yield (16) HSTs

Fabric AA, cut (continued):

- (2) 3½" x WOF cut
 - (16) 3½" x 3½"
- (2) 2" x WOF; subcut
 - (32) 2" x 2"

Fabric AB, cut:

- (2) 6½" x WOF; subcut
 - (12) 6½" x 6½"

Fabric AC, cut:

- (1) 10¼" x WOF; subcut
 - (1) 10¼" x 10¼"
 - (4) 5" x 5"
 - (4) 4¼" x 4¼"
- (1) 2" x WOF; subcut
 - (16) 2" x 2"

INSTRUCTIONS

Notes:

- All seam allowances are $\frac{1}{4}$ ". Press seams open unless otherwise directed.
- This pattern uses 2 different methods to make the same Flying Geese and Star Point shapes, because of the way fabrics are used and the quantities needed.

Foundation-Pieced Flying Geese

- 1 Using your preferred method of foundation paper piecing and the foundation pattern, make the Double Flying Geese Units shown below using **Fabric Y** 4" triangles and the **Fabric S** $3\frac{1}{2}$ " x $6\frac{1}{2}$ " rectangles (labeled 1-6) shown in **Figure 1**.

Fig. 1



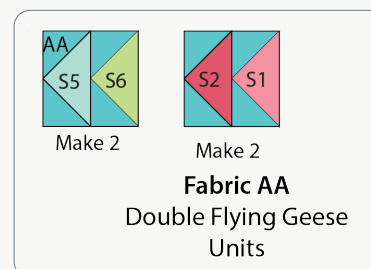
- 2** Repeat step 1 to make the Double Flying Geese Units shown below using **Fabric Z** 4" triangles and the **Fabric S** 3½" x 6½" rectangles (labeled 1-6) shown in **Figure 2**.

Fig. 2



- 3** Repeat step 1 to make the Double Flying Geese Units shown below using **Fabric AA** 4" triangles and the **Fabric S** 3½" x 6½" rectangles (labeled 1-6) shown in **Figure 3**.

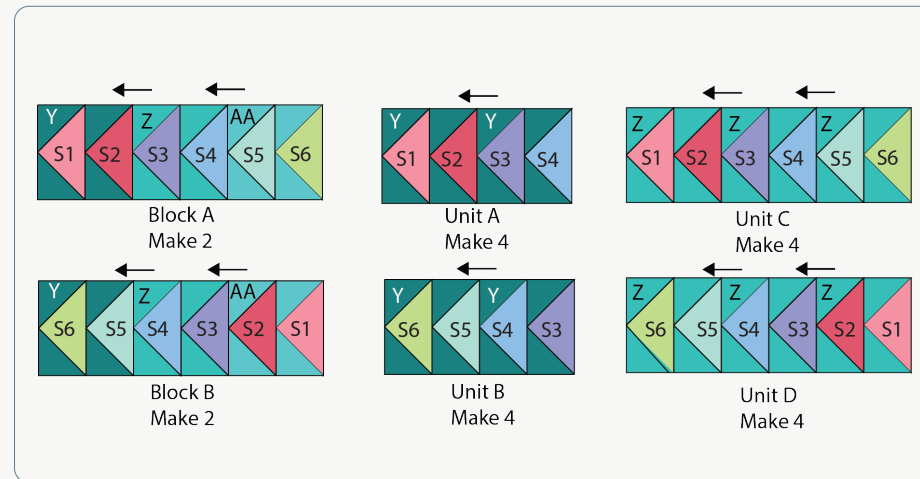
Fig. 3



- 4** Make the blocks and units below using the Double Flying Geese Units from steps 1-3, paying attention the background fabrics used and the color order of the S1-6 rectangles. (**Fig. 4**) Carefully remove the foundation papers and set all the remaining Units and Blocks aside.

Note: The Flying Geese Units A-D will be sewn with Star Units and the remaining Double Flying Geese Units to make large blocks, and the Flying Geese Blocks A and B will be sewn to these larger blocks when the quilt top is assembled.

Fig. 4



Star Point Units & Star Units

The Star Point Units are made using a technique often called '4-at-a-time Flying Geese' because sets of 4 are needed for the Star Units.

- 5** Draw a diagonal line from corner to corner on the wrong side of all the **Fabrics A-P** $3\frac{7}{8}" \times 3\frac{7}{8}"$, **Fabric B** $5\frac{3}{8}" \times 5\frac{3}{8}"$, and **Fabrics Q, R, and U-X** $2\frac{3}{8}" \times 2\frac{3}{8}"$ squares.
- 6** Group the marked squares (used for the Star Points) and the larger background squares as listed in the tables for fabric pairings and quantities and follow the 4-at-a-time technique detailed below to make all 3 sizes of Star Point Units.
 - Pin a matching pair of marked small squares in opposite corners of a large square as shown (**Fig. 5**, page 13), so that the marked diagonal lines overlap in the center. Sew $\frac{1}{4}"$ on either side of the drawn line, cut apart on the line, and press up towards the small squares (now small triangles).
 - Pin a matching small square as shown to each of the (2) units from the previous step. Sew $\frac{1}{4}"$ on either side of the drawn lines, cut apart on the line, and press towards the small square (now a small triangle) to make a set of (4) matching Star Point Units.
 - If needed, trim to the size listed in the table below, keeping the diagonal seams centered in 2 corners.

Small Star Points – Trim to 2" x 3½" (1½" x 3" finished).			Medium Star Points – Trim to 3½" x 6½" (3" x 6" finished).		
Small Squares ($2\frac{3}{8}" \times 2\frac{3}{8}"$)	Large Square ($4\frac{1}{4}" \times 4\frac{1}{4}"$)	Quantity	Small Squares ($3\frac{7}{8}" \times 3\frac{7}{8}"$)	Large Square ($7\frac{1}{4}" \times 7\frac{1}{4}"$)	Quantity
Fabrics Q and R x8	Fabric Y x2	8	Fabrics A, B, F, G, L, M, N, and O x4	Fabric Y x1	4
Fabrics Q and R x16	Fabric Z x4	16			
Fabrics Q and R x8	Fabric AC x2	8	Fabrics C, E, H, and J x4	Fabric Z x1	4
Fabrics U, V, W, and X x8	Fabric AA x2	8	Fabrics D, I, K, and P x4	Fabric AA x1	4

Large Star Points – Trim to 5" x 9½" (4½" x 9" finished).		
Small Squares ($5\frac{3}{8}" \times 5\frac{3}{8}"$)	Large Square ($10\frac{1}{4}" \times 10\frac{1}{4}"$)	Quantity
Fabric B x4	Fabric AC x1	4

- 7** Make the 3 sizes of Star Units/Blocks by following directions outlined below and the diagrams (**Fig. 6**, page 13), using the tables (below and page 12) for fabric pairings and quantities to make for each size.

Note: The Star Point Units will match the squares listed for background and feature print.

- Arrange (4) Star Point Units, (4) matching background squares, and (1) matching center square together as shown in a 3 x 3 layout.
- Sew together in columns, then sew the columns together to make a star block.

Small Star Units – 6½" x 6½"				
Center Square (3½" x 3½")	Background Squares (2" x 2")	Small Star Point Units	Quantity	
Fabric Q	Fabric Y	Matching	2 each	
Fabric R				
Fabric Q	Fabric Z		4 each	
Fabric R				
Fabric Q	Fabric AC		2 each	
Fabric R				
Fabric U	Fabric AA			
Fabric V				
Fabric W				
Fabric X				

Medium Star Points – Trim to 3½" x 6½" (3" x 6" finished).			
Center Square (6½" x 6½")	Background Square (3½" x 3½")	Medium Star Point Units	Quantity
Fabric A	Fabric Y	Matching	1 each
Fabric B	Fabric Y		
Fabric C	Fabric Z		
Fabric D	Fabric AA		
Fabric E	Fabric Z		
Fabric F	Fabric Y		
Fabric G	Fabric Y		
Fabric H	Fabric Z		
Fabric I	Fabric AA		
Fabric J	Fabric Z		
Fabric K	Fabric AA		
Fabric L	Fabric Y		
Fabric M	Fabric Y		
Fabric N	Fabric Y		
Fabric O	Fabric Y		
Fabric P	Fabric AA		

Large Star Block – 18½" x 18½"		
Center Square (9½" x 9½")	Background Square (5" x 5")	Quantity
Fabric B	Fabric AC	1

Fig. 5

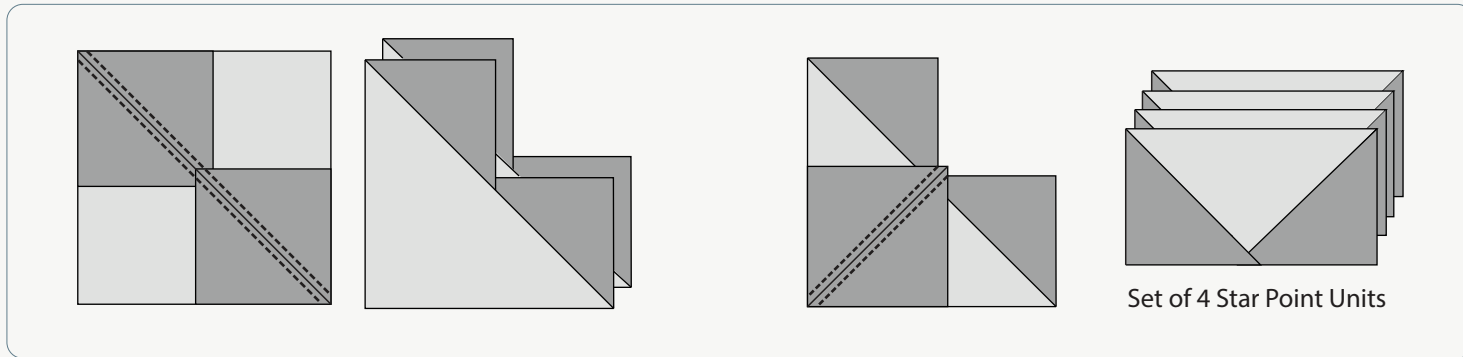
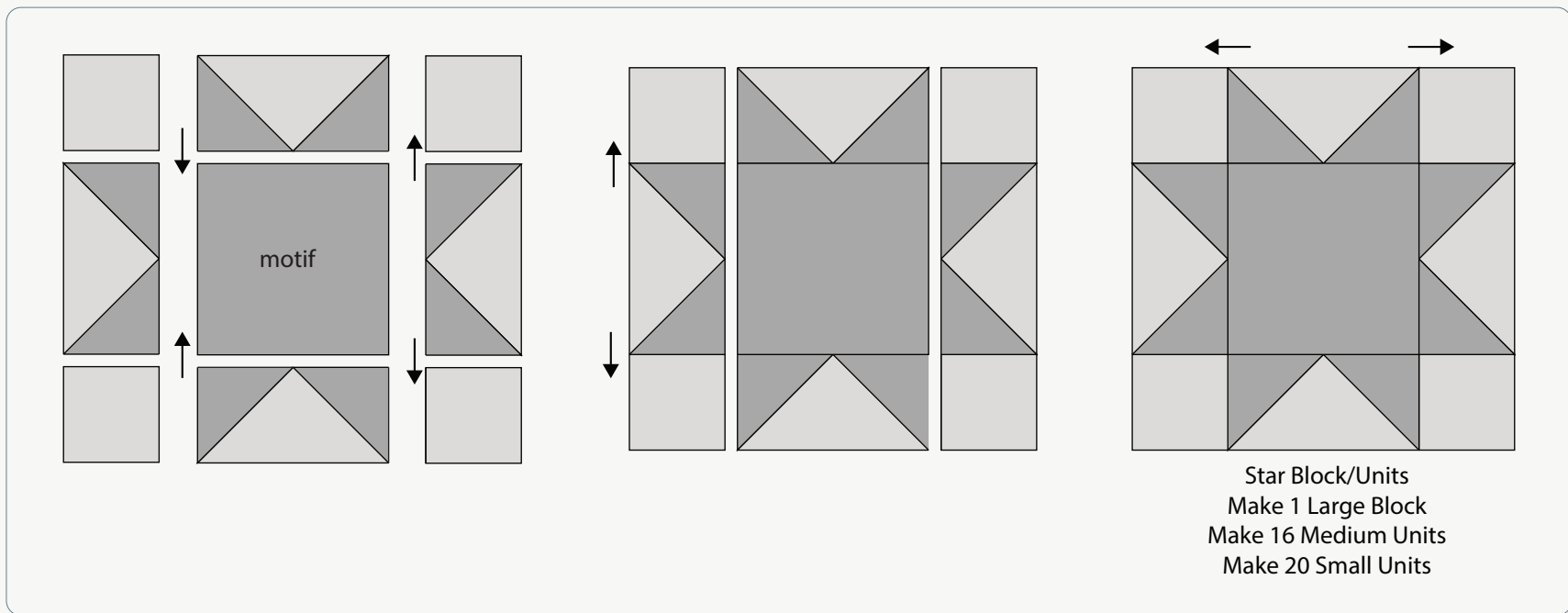


Fig. 6

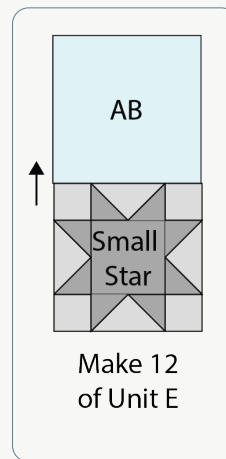


8 Sew a **Fabric AB** $6\frac{1}{2}$ " x $6\frac{1}{2}$ " square to one side of all of the following Small Star Units:

- **Fabric Q/AC**
- **Fabric R/AC**
- **Fabric U/AA**
- **Fabric V/AA**
- **Fabric W/AA**
- **Fabric X/AA**

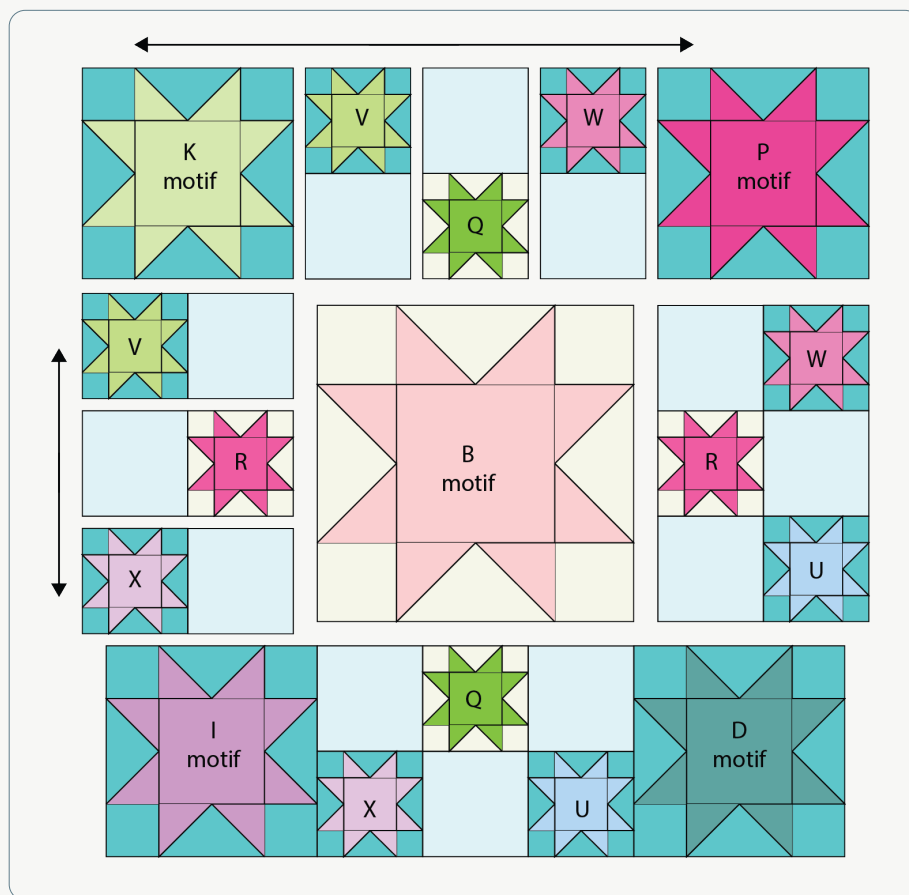
Press towards **Fabric AB** to make 12 total of Unit E.

Fig. 7



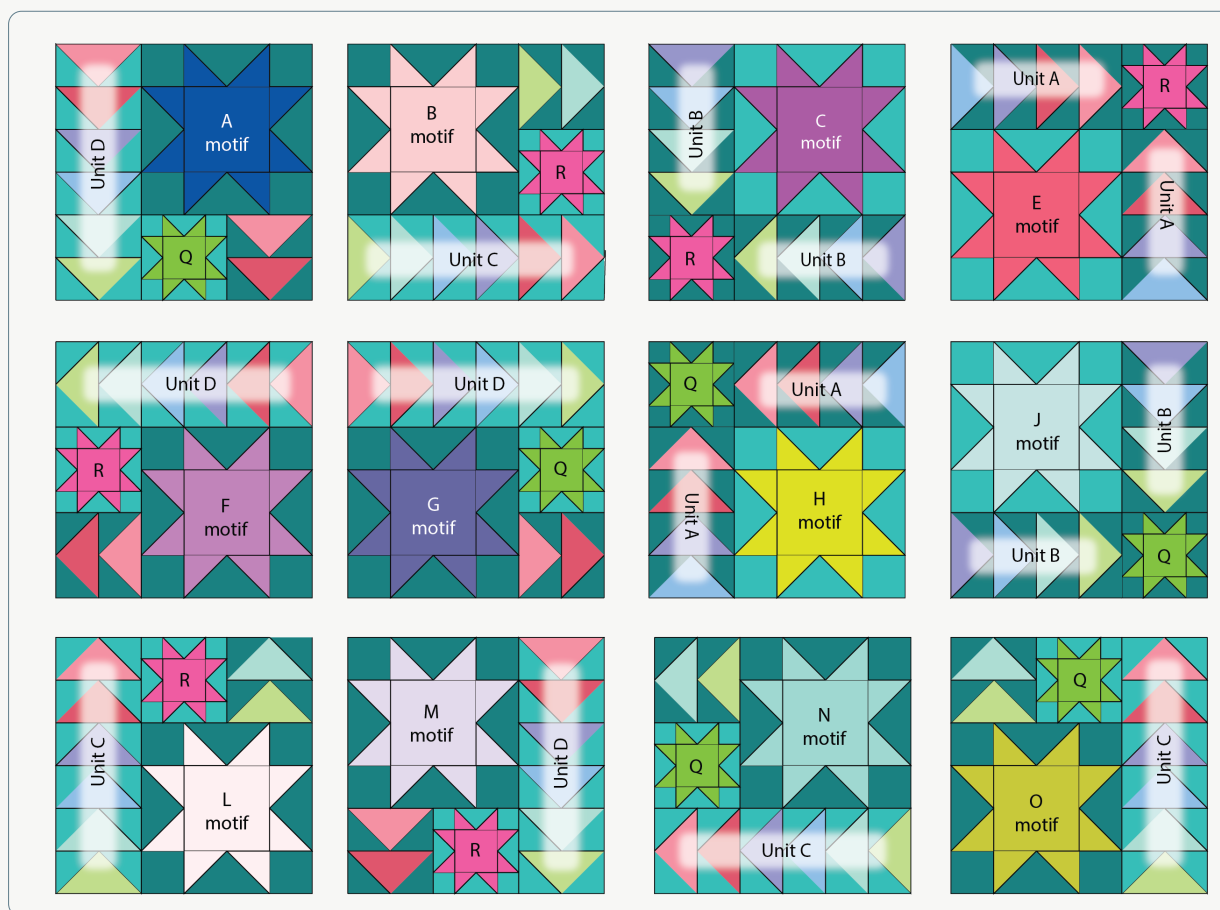
- 9 Arrange the (4) Medium Stars shown (**Fabrics D, I, K, and P**), the Large Star Block, and all of the Unit E together in 3 rows as shown for the Quilt Center. (**Fig. 8**) Pay close attention to the block orientation for the large and medium stars if you want the fabric motifs to be right-reading, as shown in the quilt image on page 1. The small stars are meant to have a tumbled appearance. Sew the sections with the small stars together first, then sew into 3 rows, then sew the rows together to complete the Quilt Center ($42\frac{1}{2}" \times 42\frac{1}{2}"$)

Fig. 8



- 10** Arrange Small and Medium Star Units, Units A-D, and the remaining Double Flying Geese units as shown in **Figure 9** into 12 unique blocks. Pay close attention to the direction of the motif in the medium stars if you want the fabric motifs to be right-reading, as shown in the quilt image on page 1. The small stars are meant to have a tumbled appearance. Sew units together in columns or rows, depending on the individual block layout, then sew columns or rows together to complete each block.

Fig. 9



The blocks should all measure 18½" x 18½".

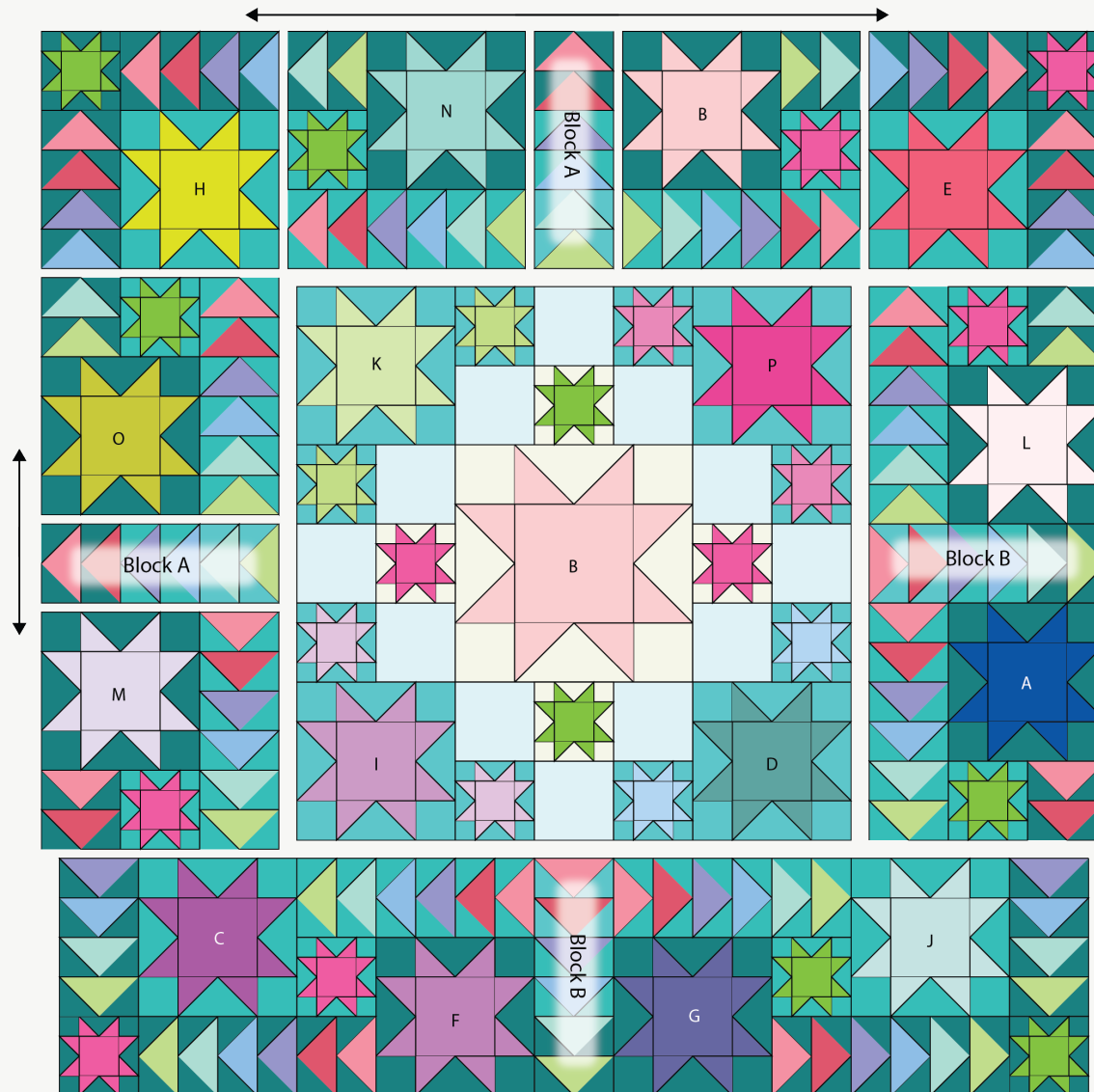
QUILT TOP ASSEMBLY

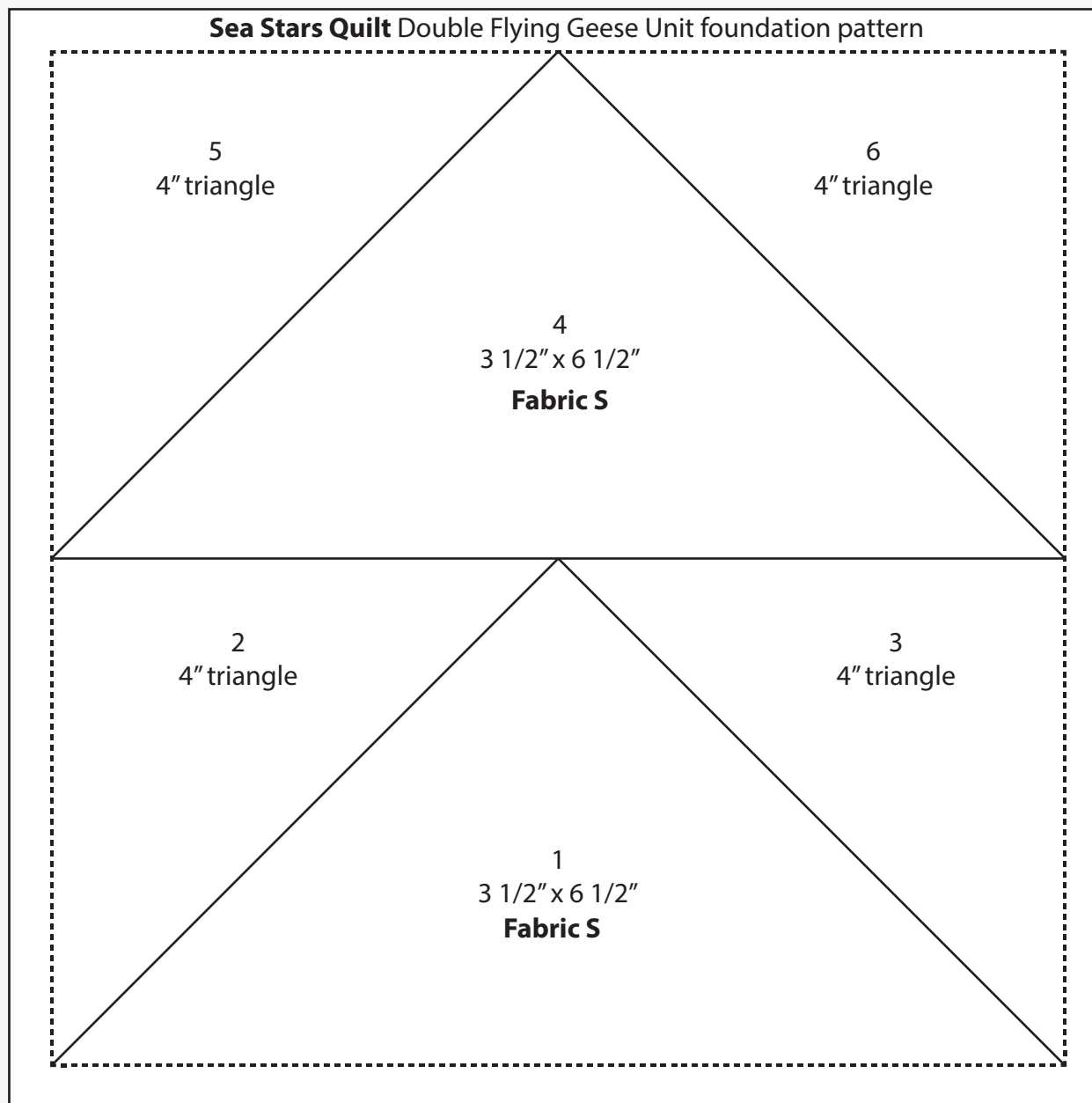
- 11** Refer to the **Quilt Layout** Diagram (page 18) to arrange all 12 Star & Geese Blocks and 2 each of the Flying Geese Block A and Block B around the Quilt Center as shown.
- 12** Sew the blocks together into, essentially, side and top/bottom borders, then sew the block borders to the sides, then the top and bottom of the quilt center, to complete the quilt top.

FINISHING

- 13** Sew the **Fabric T** bias binding strips together end to end, trimming as needed to keep the rainbow color order of the stripes. Press the seams open. Press the binding strip in half wrong sides together.
- 14** Layer the backing (wrong side up), batting, and quilt top (right side up). Baste the layers together and quilt as desired. Trim excess batting and backing even with the quilt top after quilting is completed.
- 15** Leaving an 8" tail of binding, sew binding to top of quilt through all layers matching all raw edges. Miter corners. Stop approximately 12" from where you started. Lay both loose ends of binding flat along quilt edge. Where these two loose ends meet, fold them back on themselves and press to form a crease. Using this crease as your stitching line, sew the two open ends of the binding together right sides together. Trim seam to ¼" and press open. Finish sewing binding to quilt.
- 16** Turn the binding to the back of the quilt and hand stitch in place.

Quilt Layout





This square should
measure 1" x 1"
(2.54cm x 2.54cm)
when printed.

***** Measure templates before cutting to confirm printing at 100%*****

All possible care has been taken to ensure the accuracy of this pattern. We are not responsible for printing errors or the manner in which individual work varies. Please read the instructions carefully before starting this project. If kitting it is recommended a sample is made to confirm accuracy.