

LINEAR REFRACTION

Sixty degree triangle quilts are easy to make. This pattern throws in a parallelogram for added interest and additional shapes.

Basic knowledge of patchwork assembly and cutting is required. Please use a $\frac{1}{4}$ " seam allowance unless otherwise stated.

Quilt Stats:

38½ x 38½" or ~98 x 98 cm

Triangle Height 4.75"

Triangle Width 5.5"

Difficulty: a slight challenge

Materials Needed

$\frac{3}{4}$ yard green

1 yard white

$\frac{1}{2}$ yard blue

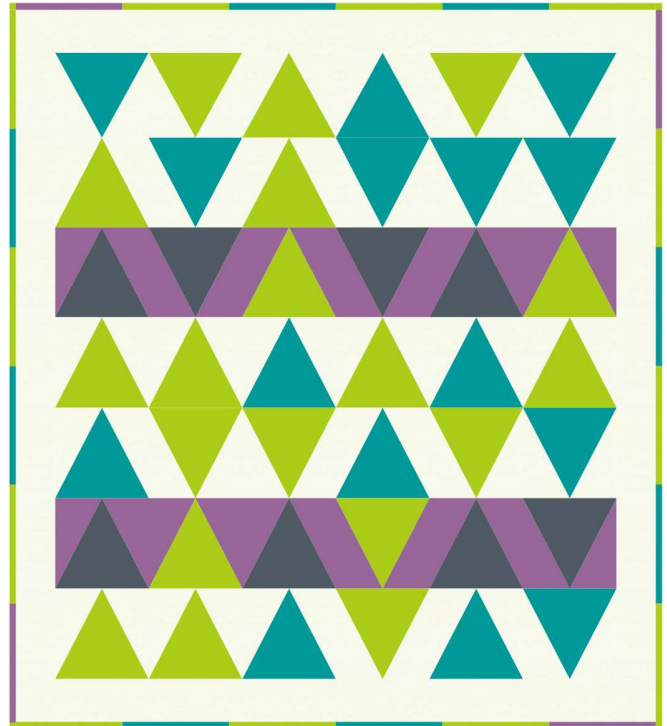
$\frac{1}{2}$ yard purple

$\frac{1}{4}$ yard dark navy blue

42" x WOF backing fabric

42" x 42" cotton batting

8" 60° triangle ruler



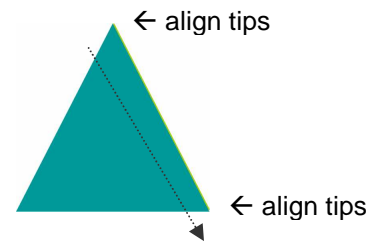
Cutting Instructions

For the triangles, cut 5½" wide strips and use a 60° triangle ruler to cut the rest. For the parallelograms, cut 2 $\frac{7}{8}$ " wide strips and use the length in the table below for additional cutting. For half 60° triangles cut $\frac{1}{2}$ " over the middle of the triangle for added seam allowance.

	green	white	lagoon blue	purple	navy blue
Triangles 6½" long	19	14	15	3	8
Parallelograms 6 $\frac{1}{8}$ " long		11		7	
Half 60° Triangles 4" long (Left)		5		2	
Half 60° Triangles 4" long (Right)		5		2	
Border 3½" x WOF		4			
Binding 7" x 2 ½" strips	12		8	4	

Quilt Assembly

1 Lay out your first row of triangles and parallelograms. Sew triangles together matching tip to tip. Sew parallelograms to triangles with a $\frac{1}{4}$ " gap at tips. Finger press as you sew. After a while, you will get the rhythm of sewing them together. Don't get discouraged if you have to rip seams in the beginning.



2 Sew Row 1, 3, 5 and 7 together working from left to right. Sew Row 2, 4, & 6 together working from right to left. Opposing directions will allow the seams to cradle in the next step. Press your rows with an iron.

3 The width of your rows including seam allowance should measure $5\frac{1}{4}$ ". Square your rows leaving $\frac{1}{4}$ " beyond the tips of the triangles on both sides.

4 Sew strips together until the center block is complete making sure to cradle the seams for easier sewing and more accurate triangle tips. Do not cut off the tips when you sew rows together.

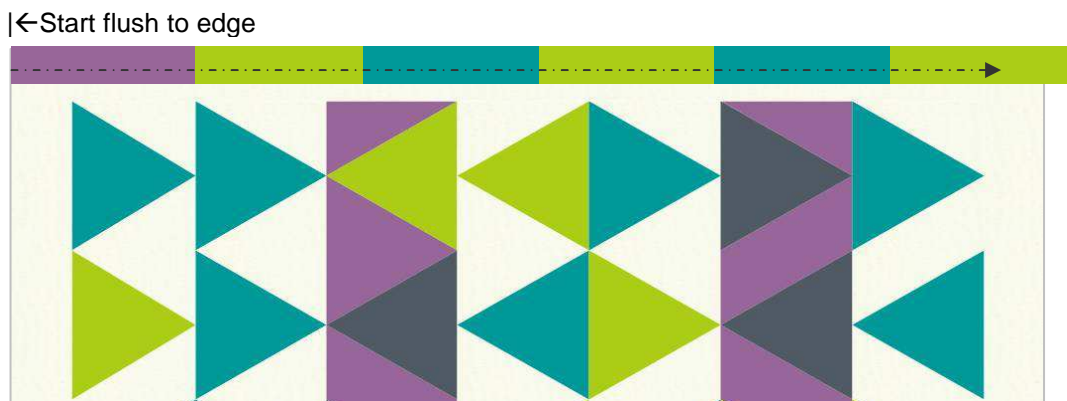
5 Square up the center patchwork.

6 Apply the borders by first measuring the length through the center. Cut white strips to that length and add to both sides. Press outwards.

7 Repeat Step 6 for the width. Square if necessary. Baste and quilt as desired.

8 Prepare the $2\frac{1}{2}$ " double-folded binding by sewing a purple – green – blue – green – blue – green strip together. Make four ~41" strips this way. Do not cut these strips to the length of the quilt! Press seam open, fold in half – raw edge to raw edge, wrong side of fabric to wrong side of fabric and press.

9 Apply the binding by starting flush from one corner. Sew using a $\frac{3}{8}$ " seam allowance – raw edges aligned. Stop one inch from the edge for just the first binding strip. Cut the strip $\frac{1}{2}$ " longer than the quilt. Leave the right side loose (not sewn) for now. On the left side, flip the binding over to the back as if to finish the binding. Hold in place with a pin.



10 Flip your patchwork 90° to the left and apply the next binding strip in the same manner but sew to the end backstitching to ensure the lower purple binding is sewn and will become encased. REF I. The ends will be open (for now).

11 Continue applying the binding to the other third side in the same manner.

12 For the forth side, pull back the very first binding strip before you start to sew the purple starting strip to the quilt top. REF III. Apply the binding as in Step 10. Finish the first binding strip by sewing to the edge of the quilt.



13 To close the binding, fold the green portion up and around the purple binding strip and back in half. REF II. You may choose the alternate method by folding the green strip back flush with the purple binding before you fold up and then fold in half. You can sew the opening shut. REF IV

14 Close binding with machine or hand stitches.

Thank you for downloading and reading this pattern!

Karen Ackva's
easypatchwork

Patchwork designed, sewn and quilted by Karen Ackva
easypatchwork.blogspot.de
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