

# Scrapbook Soup 501-4 Pentagon Lantern

Designed by Jeanie Sumrall-Ajero, [www.KalCollections.com](http://www.KalCollections.com)

Presented by Joe Rotella, [www.CreateNCraft.com](http://www.CreateNCraft.com)

## Materials

- PC (or a Windows emulator - such as Parallels, Bootcamp or VMware Fusion - running on a Mac)
- *Kaleidoscope Collections'* Kaleidoscope Kreator™ 3\*
- *Kaleidoscope Collections'* Quilters' Polygons Template Pack\*
- Digital photo
- Printer
- Plain paper
- Clear transparencies
- Fine-point black permanent marker
- Brother ScanNCut with Standard Cutting Blade and Pen
- USB stick
- 4 sheets of 12x12 cardstock *or* 6 sheets of 8.5x11 cardstock
- Red liner tape
- Battery-operated LED candle or puck light (flood-light style will throw light against the wall)

\*Available at [www.KalCollections.com](http://www.KalCollections.com)



## Step 1: Create kaleidoscope design to inspire a pen drawn design

- A. Open the digital photo in Kaleidoscope Kreator using **File>Open Image**.
- B. Select a template shape. Click on the **Select Kaleidoscope Shape** button in the **Toolbar** (the button that looks like a pie wedge) to bring up the template shape selector. Double-click on the **QP05A Solid (10)** template shape from the **Quilters' Polygons Template Pack** to select it. (**Figure 1**)
- C. Move, rotate and/or resize the photo in the workspace and watch the Kaleidoscope Preview in the upper right corner of the screen. (**Figure 2**) Every time you move the photo in the workspace, the Preview will update with the current design based on the position of the photo in the template. Click on the Kaleidoscope Preview if you want to see a full-screen preview of the kaleidoscope. *You will be tracing the basic shapes that the design inspires, so don't make it too complicated.*
- D. **File>Print Kaleidoscope** and specify a size of **8 inches**. (**Figure 3**) You can print this on plain paper since you will simply be using it as a guide for tracing.

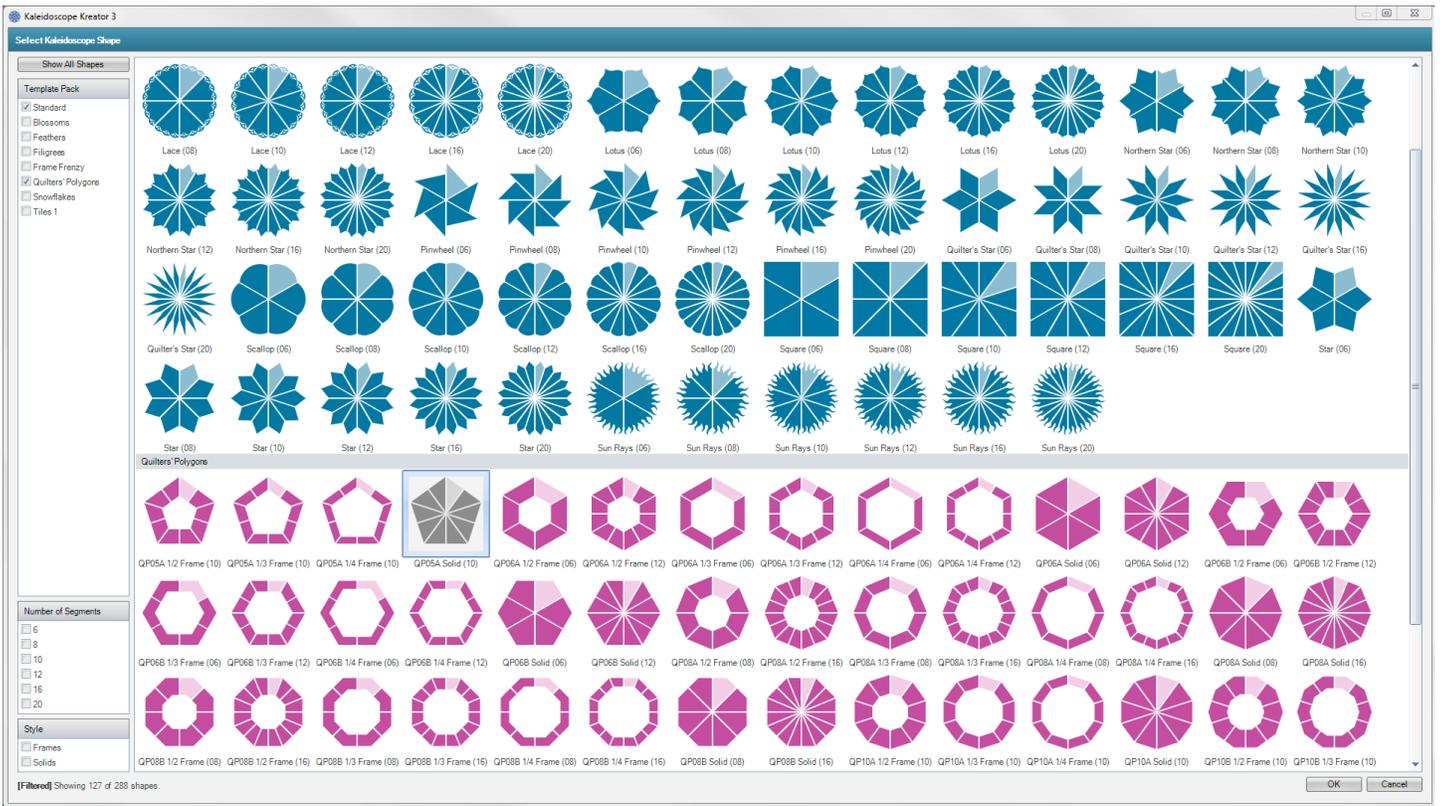


Figure 1

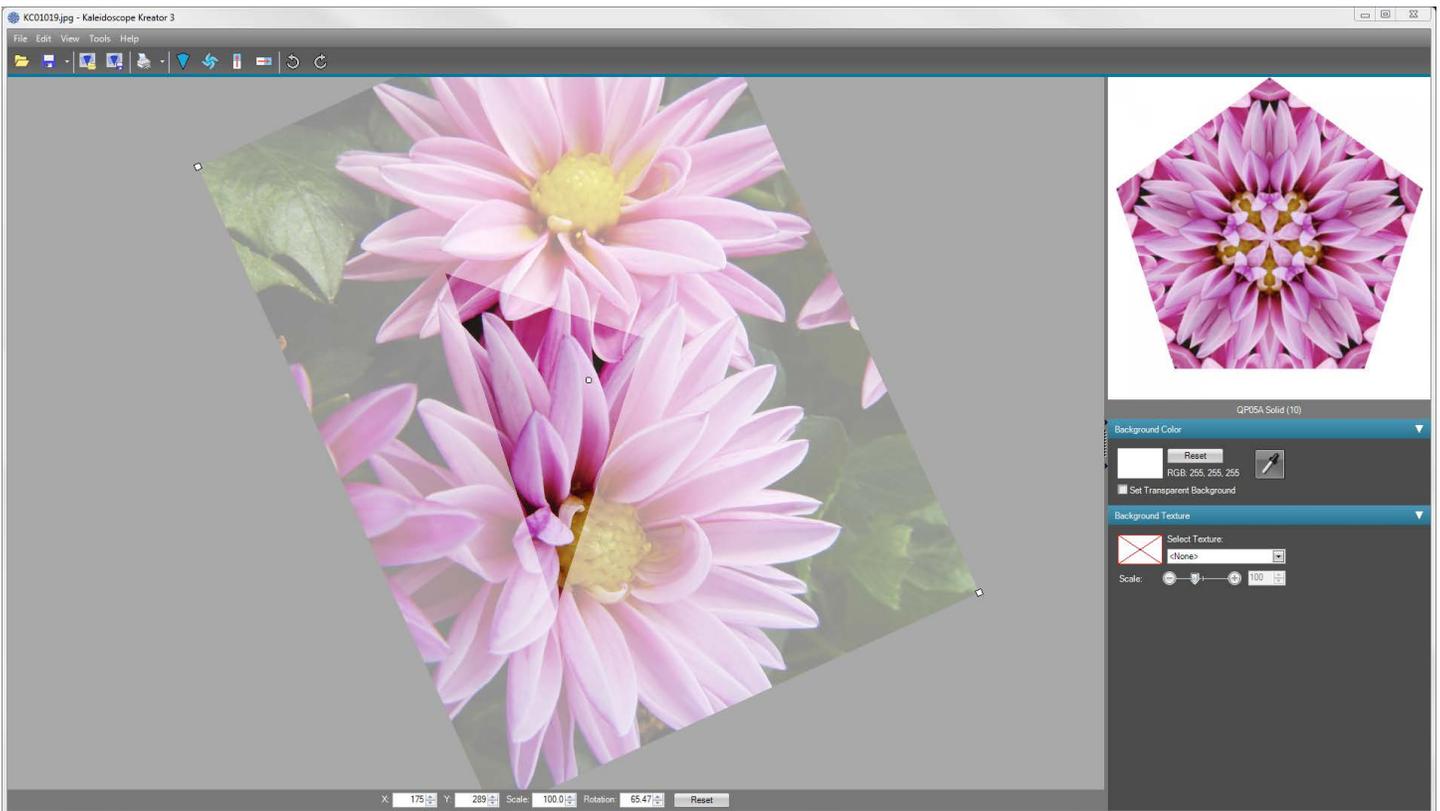


Figure 2

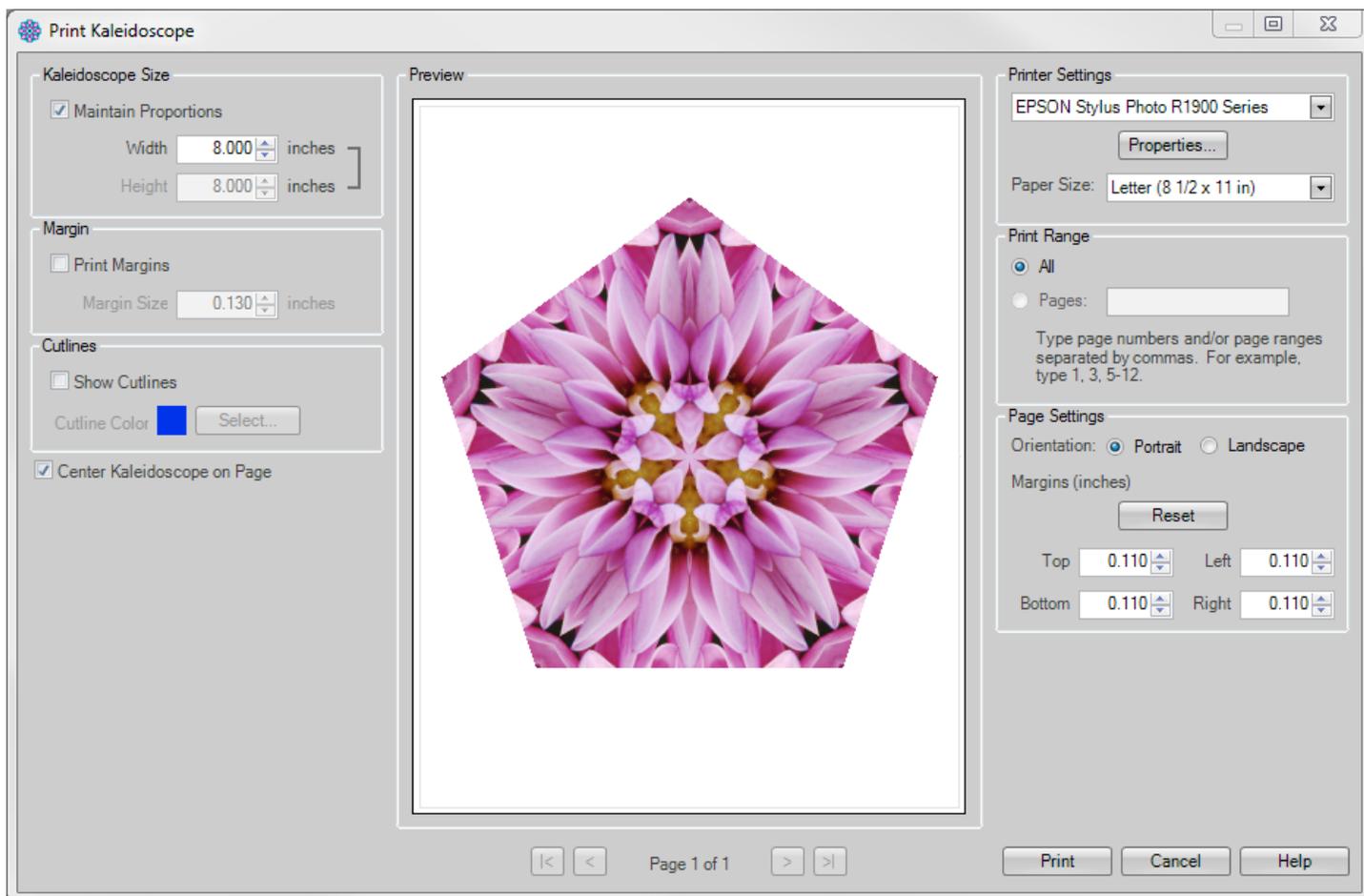


Figure 3

## Step 2: Trace the kaleidoscope design to create a pen drawing

- A. Place a clear transparency over the printed kaleidoscope. Using the kaleidoscope design as inspiration, draw lines in one wedge (at a minimum) with the fine point black marker to create a design that the ScanNCut will draw with a pen. As you can see in **Figure 4**, this does not need to be a perfect tracing. Just use the printed kaleidoscope to inspire you.

Be sure to make registration marks at both the center point and the outer edges of one wedge to make it easier to line up in Kaleidoscope Kreator. The arrows in **Figure 4** show the placement of the registration marks.

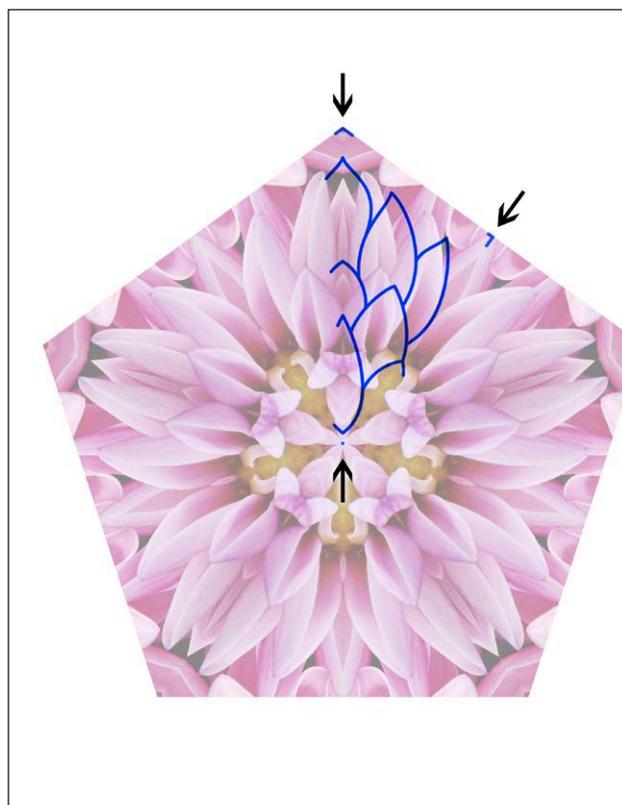


Figure 4

B. Place a second clear transparency over the printed kaleidoscope. This time draw the holes that you want cut out of the design *as well as the registration marks*. (Figure 5)

C. Scan the two doodled wedges. If you use the ScanNCut to scan the transparency to the USB stick, make sure you put a piece of plain white paper behind it. (Figure 6)



Figure 5

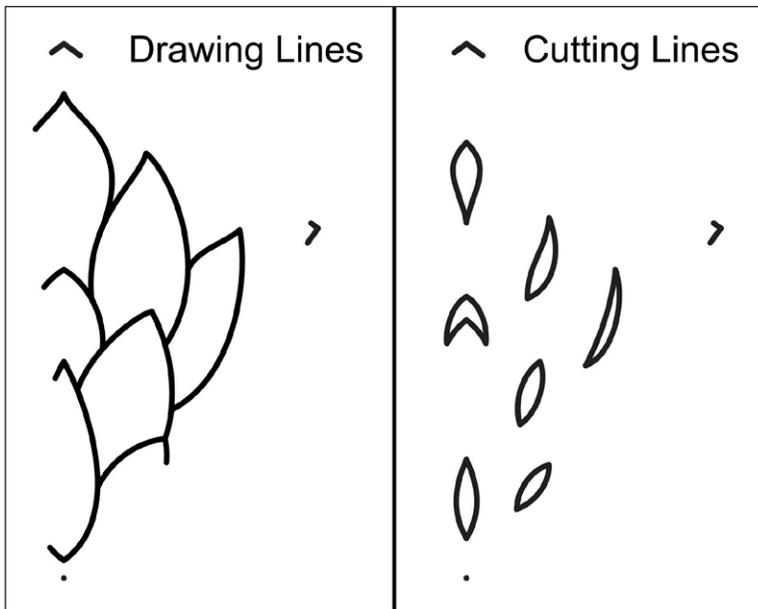


Figure 6

### Step 3: Open the traced lines in Kaleidoscope Kreator to create a full kaleidoscope design

A. Back in Kaleidoscope Kreator, change the overlay color in order to see the template shape against a white piece of paper. Go to **Tools>Options** in the menu, then click on the **Select** button for the **Template Overlay Color**. Choose any color other than white. (Figure 7) Click **OK**. Click **OK** again.

B. Open the scanned drawing design in Kaleidoscope Kreator and adjust the position of the design (i.e. move, rotate and resize) to create the entire pentagon design. (Figure 8) Don't worry if the registration marks appear in the kaleidoscope. (Figure 9) They can easily be cleaned up when editing the traced design on the ScanNCut.

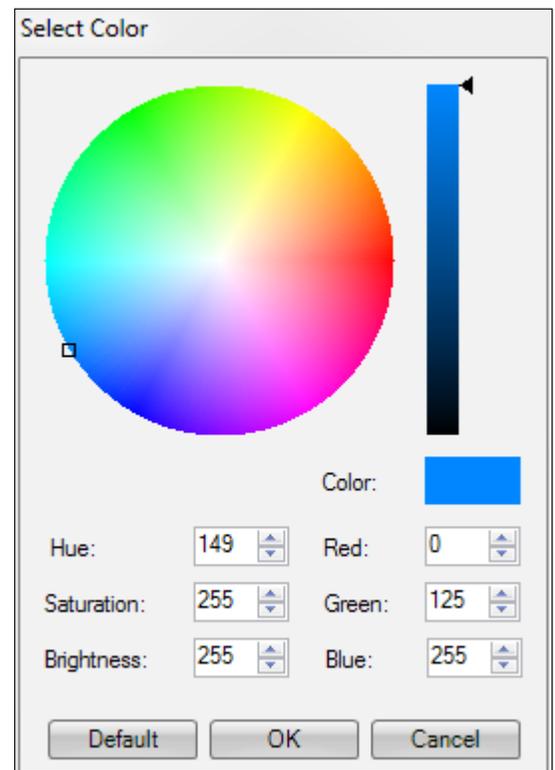


Figure 7

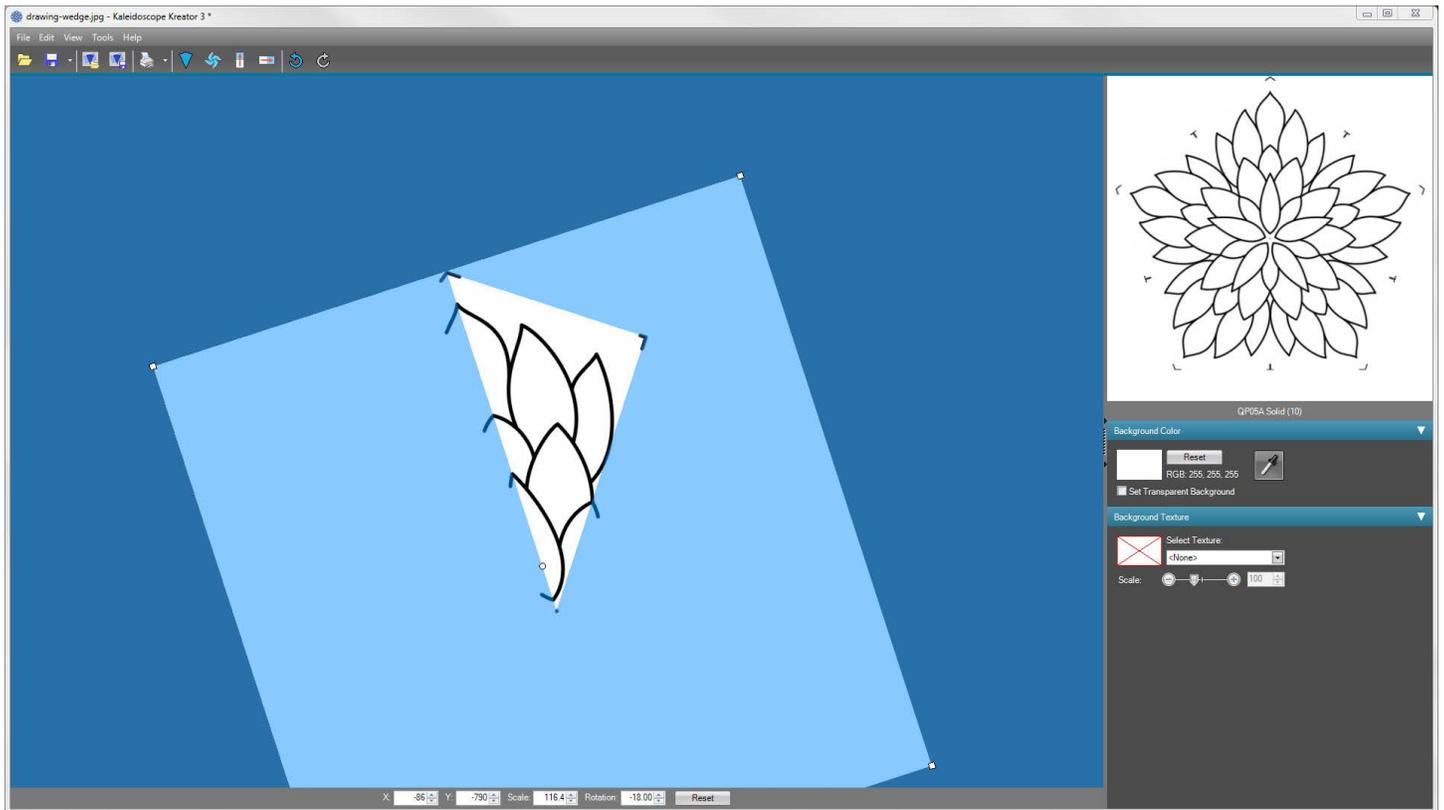


Figure 8

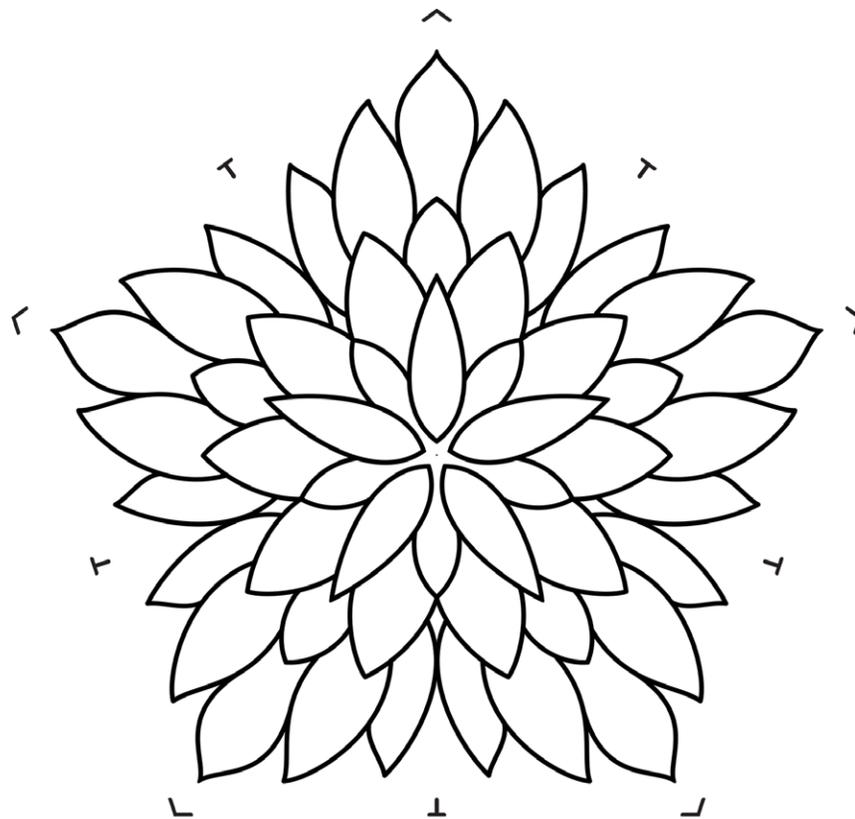


Figure 9

- C. **File>Print Kaleidoscope** and specify a size of **8 inches** to print the drawing design on plain paper. This is your “drawing” design. Note: I suggest you print at 8 inches instead of a smaller size because the ScanNCut will give you a better trace when you use a larger design.
- D. Open the scanned cutting design in Kaleidoscope Kreator and adjust the position of the design (i.e. move, rotate and resize) to create the entire pentagon design. (**Figure 10**) Again, don’t worry if the registration marks appear in the kaleidoscope.
- E. **File>Print Kaleidoscope** and specify a size of **8 inches** to print the cutting design on plain paper. This is your “cutting” design.

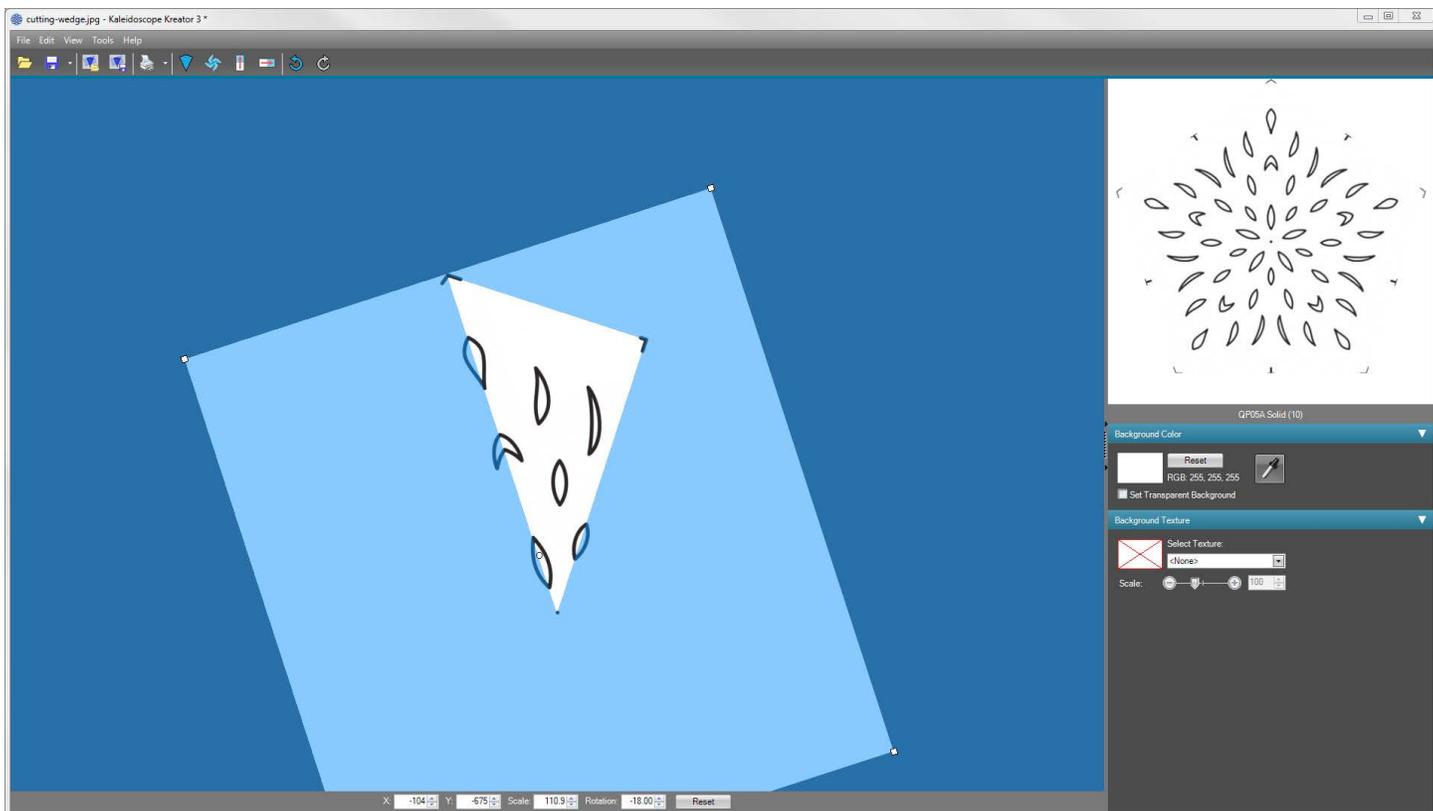


Figure 10

## Step 4: Scan the printed designs and turn them into cut data on the ScanNCut

- A. Touch **Scan** on the home screen of the ScanNCut.
- B. Touch **Scan to Cut Data** in the scanning mode screen. (Figure 11) Put the sheet with the drawing lines on the cutting mat. (Note: Placing the design squarely on the mat will make it easier to line things up later on.) Load the mat in the ScanNCut and press the **Start/Stop** button to scan the drawing design.

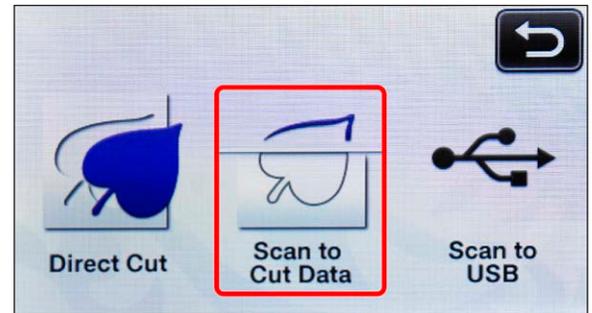


Figure 11

- C. Choose the **Line Detection** option to trace the drawing lines. (Figure 12) Adjust the trimline by dragging the diagonal arrows on the screen. Note: The Line Detection option does not exist in the ScanNCut Canvas software at the time these instructions are being written, therefore the designs must be converted to cut data on the ScanNCut itself.

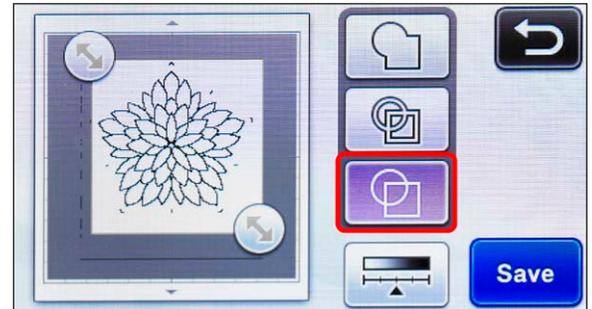


Figure 12

- D. Touch **Save** and then touch the **USB** icon to save the design to the USB stick. Make note of the filename. (Figure 13) Touch the **OK** key to finish saving the data.



Figure 13

- E. Press the **Home** button then touch **OK** (OK to delete all patterns) and repeat steps A-D for the cutting lines.

Clean up the designs while still on the ScanNCut:

- F. Press the **Home** button, then touch the **Pattern** key on the home screen.

- G. Touch **Saved Data**, then the **USB** key on the screen. Scroll (if necessary) to find the saved drawing design. Touch the design to select it (Figure 14), then touch the **OK** key.

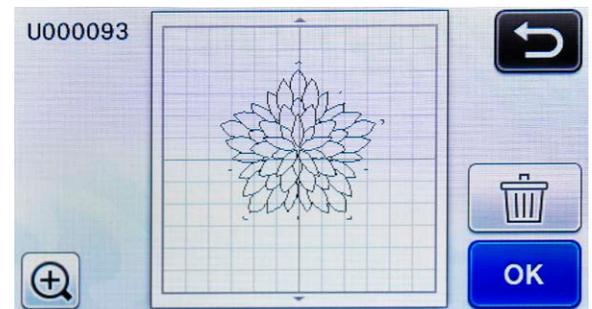


Figure 14

- H. Remove any stray registration marks:

- Touch the **Edit** key. (Figure 15)
- Use the stylus to select one of the registration marks on the screen (Figure 16), then touch the **Trashcan** icon, then **OK** to delete it.
- Repeat (ii) to delete each registration mark.

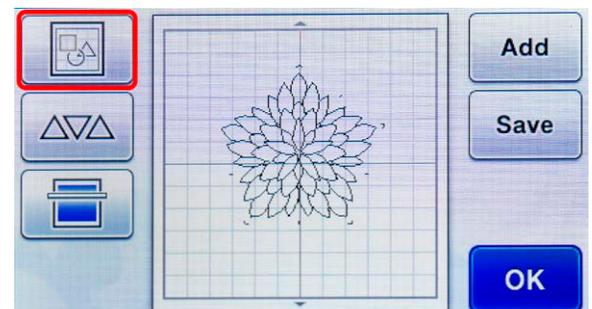


Figure 15

I. Unify the design:

i. Touch the **Multiple Pattern Selection** button. (Figure 17)

ii. Touch the **Select All** button. (Figure 18) Touch **OK**.

iii. Touch the **Unify** button so that all of the drawing lines can be manipulated as one unit. (Figure 19) Touch **OK** to confirm. Touch **OK** to return to the main editing screen.

J. Save the updated design. Touch **Save** and then touch the **USB** icon to save the design to the USB stick. Choose **Overwrite** when prompted. (Figure 20) Touch the **OK** key to finish saving the data.

K. Repeat steps F-J for the cutting design.

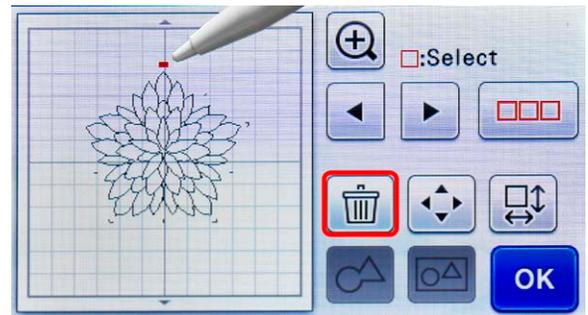


Figure 16

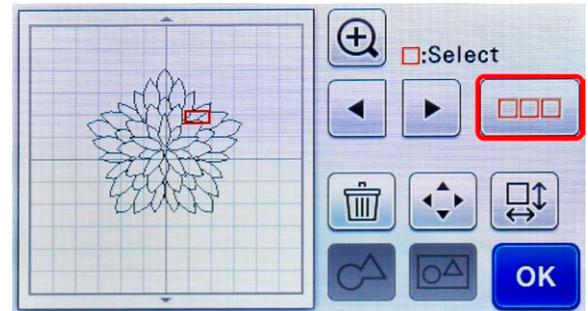


Figure 17

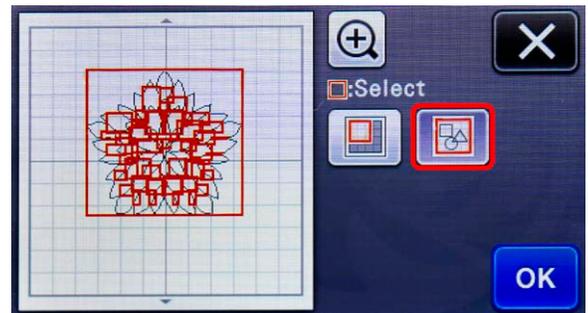


Figure 18

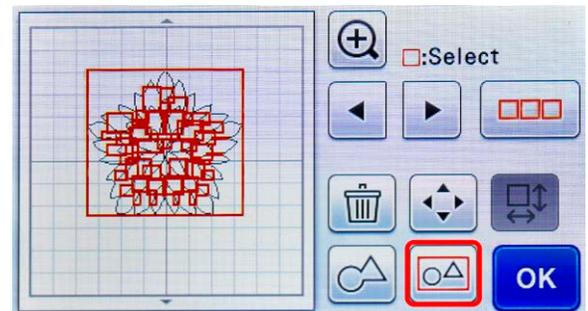


Figure 19

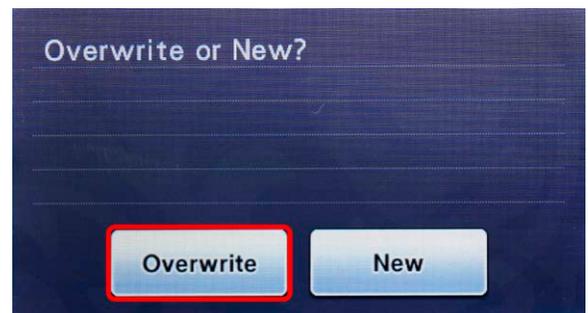


Figure 20

## Step 5: Combine the drawing and cutting designs in ScanNCut Canvas

A. Bring the USB stick with the drawing and cutting designs to your computer. Start the ScanNCut Canvas software and click on **New**.

B. Click on the **SVG** button and open the drawing design that you brought over from the ScanNCut. (**Figure 21**)

C. With the drawing design selected, open the **Properties** box. Set the **Line Type** to **Drawing Line** and change the color to blue to help you identify them when combined with the cutting design. (**Figure 22**) Move the drawing design to the side of the canvas so that it's easier to select the cutting design when it is brought in.

D. Click on the **SVG** button again and open the cutting design that you brought over from the ScanNCut.

E. Select the cutting lines and in the **Properties** box set the **Line Type** to **Cutting Line**. (**Figure 23**)

F. Close the **Properties** box. Move the drawing lines on top of the cutting lines to line them up. You might want to zoom in for this step. (**Figure 24**) They should line up fairly easily since you printed them at the same size back in Step 3E. However, if you didn't place them squarely on the mat when you scanned them, you may need to rotate one or the other.

G. Select both the drawing and the cutting lines then choose **Edit>Group** from the menu to group them together.

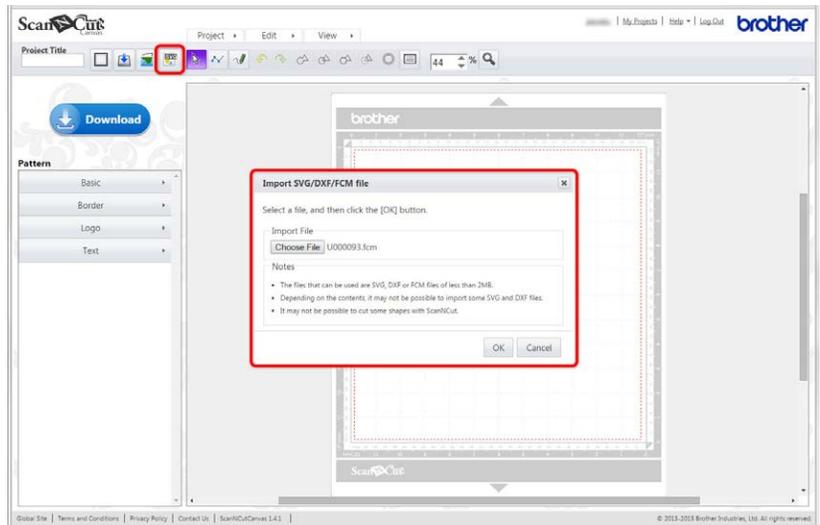


Figure 21

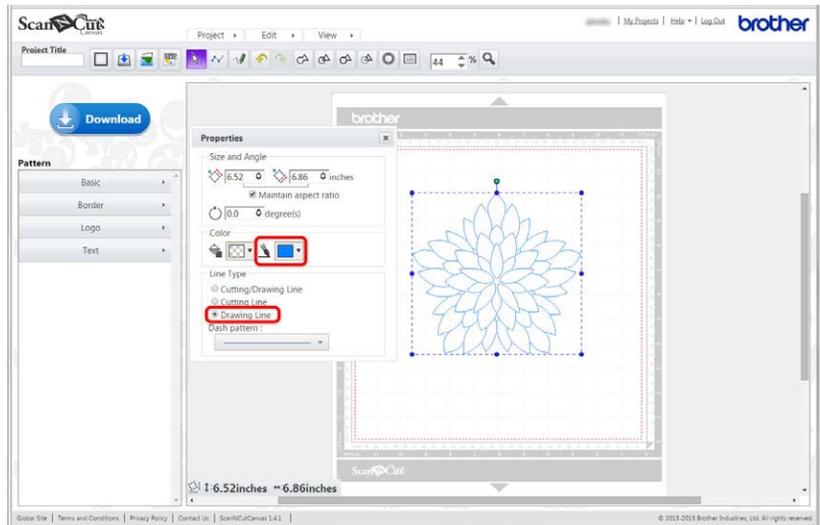


Figure 22

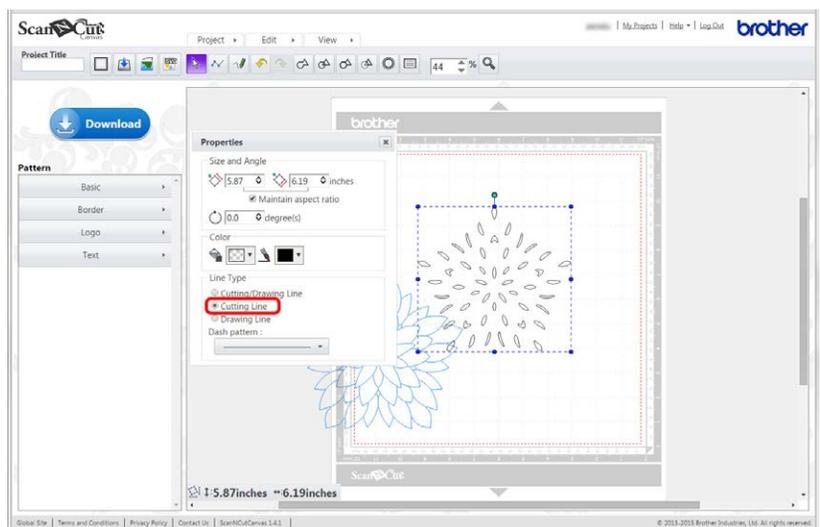


Figure 23

H. Now combine this grouped drawing/cutting design with the Pentagon Lantern Template that was provided alongside these instructions on the Scrapbook Soup website. Click on the SVG button, navigate to the Pentagon Lantern Template (which you have previously downloaded) and click OK. (Figure 25)

I. Resize the drawing/cutting design smaller to fit in the pentagon template. To do this, select the grouped drawing/cutting design and then open the **Properties** box again. Make sure **Maintain Aspect Ratio** is checked, then set the **Width** to **4.3 inches**. Move the drawing/cutting design so that it is centered in the pentagon template. (Figure 26) If necessary, adjust the size and/or rotation to fit in the pentagon template. Once it is positioned correctly, close the Properties box.

J. Select both the pentagon template and the drawing/cutting design, then choose **Edit>Group** from the menu to group them together.

K. Choose **Edit>Duplicate** from the menu to make additional copies depending on the size of your cardstock. You can fit two pentagons on 8.5" x 11" cardstock and four pentagons on 12" x 12" cardstock. (Figure 27)

L. Save your layout to a new file and download to your USB stick to bring the designs back to the ScanNCut.

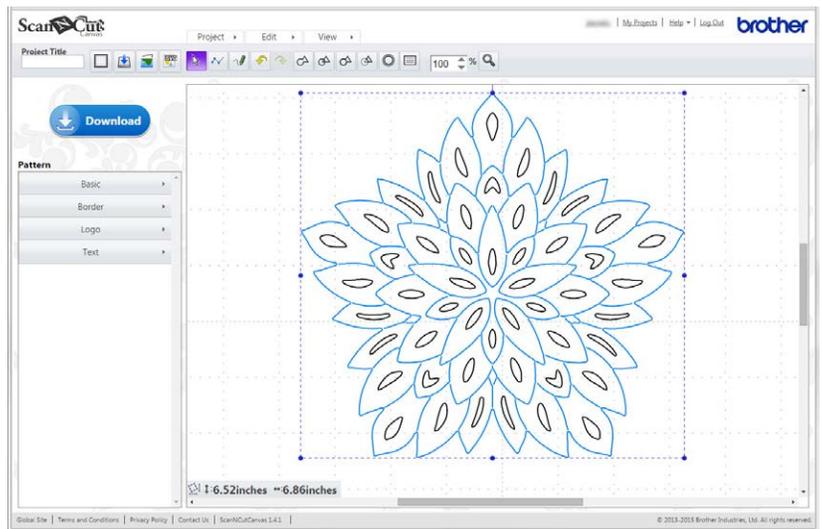


Figure 24

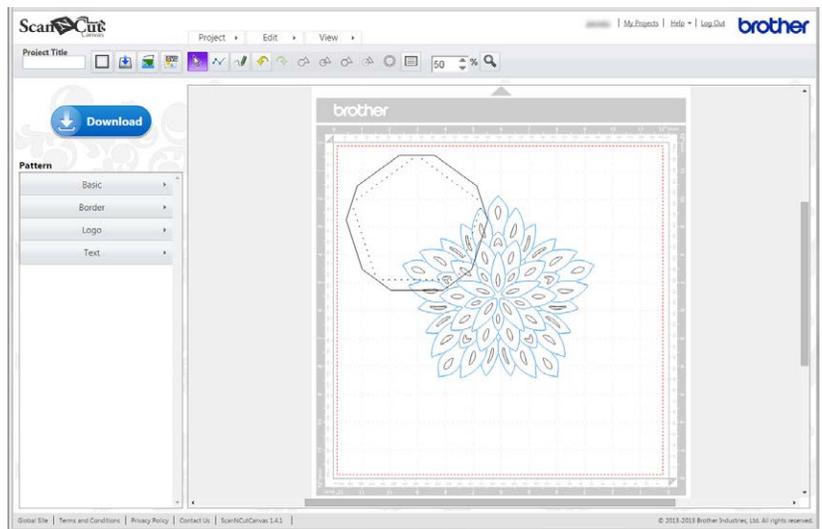


Figure 25

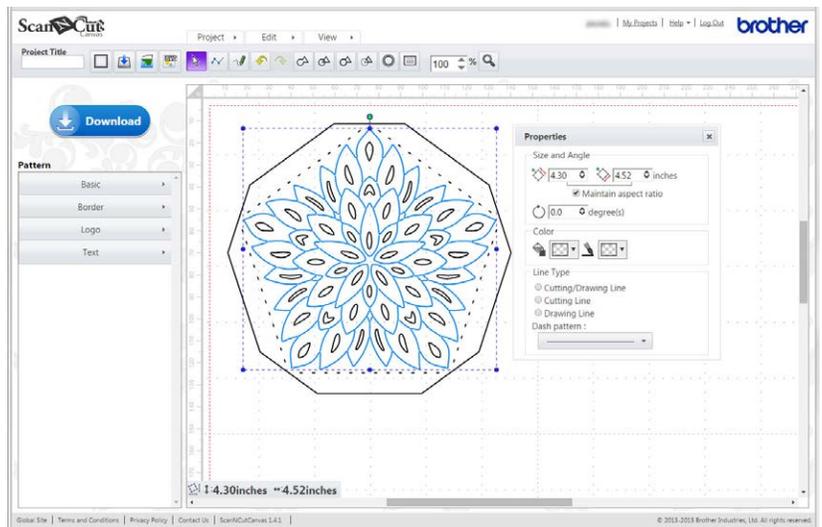


Figure 26

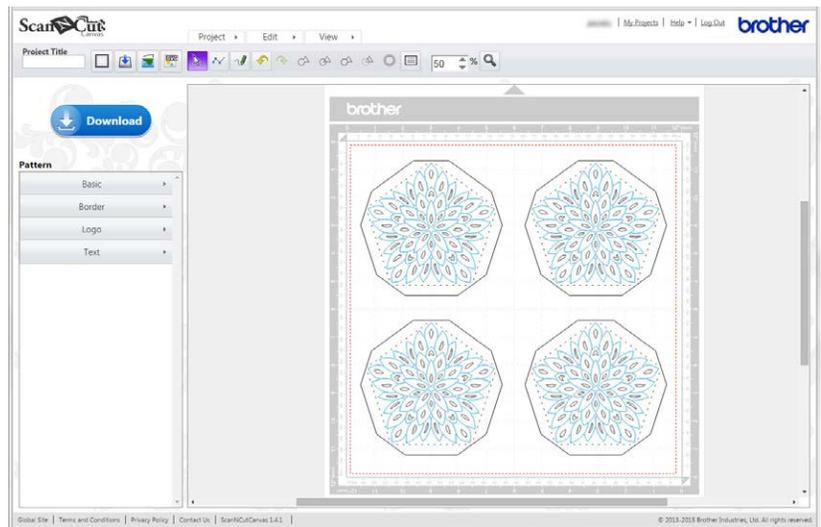


Figure 27

### Step 6: Draw and cut the pentagon designs on the ScanNCut

- A. Back at the ScanNCut, press the **Home** button. Then touch **Pattern** and find the pentagon design layout on your USB stick. Work your way through the prompts (do not edit) until you get to the **Draw/Cut** selection screen.
- B. Place cardstock on cutting mat and load it into the machine.
- C. Put a pen in the ScanNCut pen holder, then replace the cutting blade in the ScanNCut with the pen holder.
- D. Touch “Draw”, then press the “Start/Stop” button to draw the designs.
- E. Remove the pen and replace it with the cutting blade on the ScanNCut.
- F. Touch “Cut”, then press “Start/Stop” to cut out the shapes.
- G. Remove the pieces from the mat.
- H. Repeat steps A-G until you have eleven (11) pentagons.

## Step 7: Put the lantern together

*Note: Although the diagrams for this section use a simpler design, the construction is exactly the same.*

- A. For each pentagon, fold all of the tabs towards the back. You can open them again to apply the tape, but ultimately they will all fold to the back.
- B. On one pentagon (the center top), put red liner tape on the front side of all five tabs. Place the edge of the tape as close to the fold line as possible. (**Figure 28**)
- C. On five pentagons, put red liner tape on the front side of three consecutive edges. It doesn't matter which three since the design is symmetrical. See the bottom picture in **Figure 29** for how the tape should look on three consecutive edges.
- D. Secure the five pentagons (from C) to the center pentagon. Place center pentagon (B) face down on your work surface. Remove the red liner from one tab of the center pentagon at a time. Position one of the (C) pentagons such that one of the *untaped* tabs butts up against the taped tab of the center pentagon. It doesn't matter which untaped tab you choose for the first pentagon, but make sure the rest of the pentagons are oriented the exact same way as you secure them around the center pentagon. (**Figure 29**) Don't worry if you make a mistake putting the tape on the tabs. Just add more tape if you discover an edge that is missing some.
- E. Now secure the side tabs of the five (C) pentagons to each other. With the center pentagon face down on the work surface, it should now look like you have a bowl. (**Figure 30**)
- F. On the remaining five pentagons, put red liner tape on the *back* of one tab. Remove the red liner and secure the tab to the back of the pentagon. (**Figure 31**)
- G. Turn each pentagon face up and place red liner tape on the tab just to the right of the folded edge. (**Figure 32**)

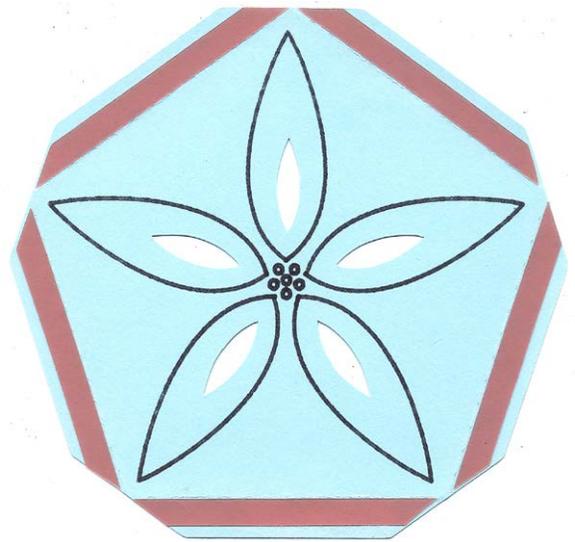


Figure 28

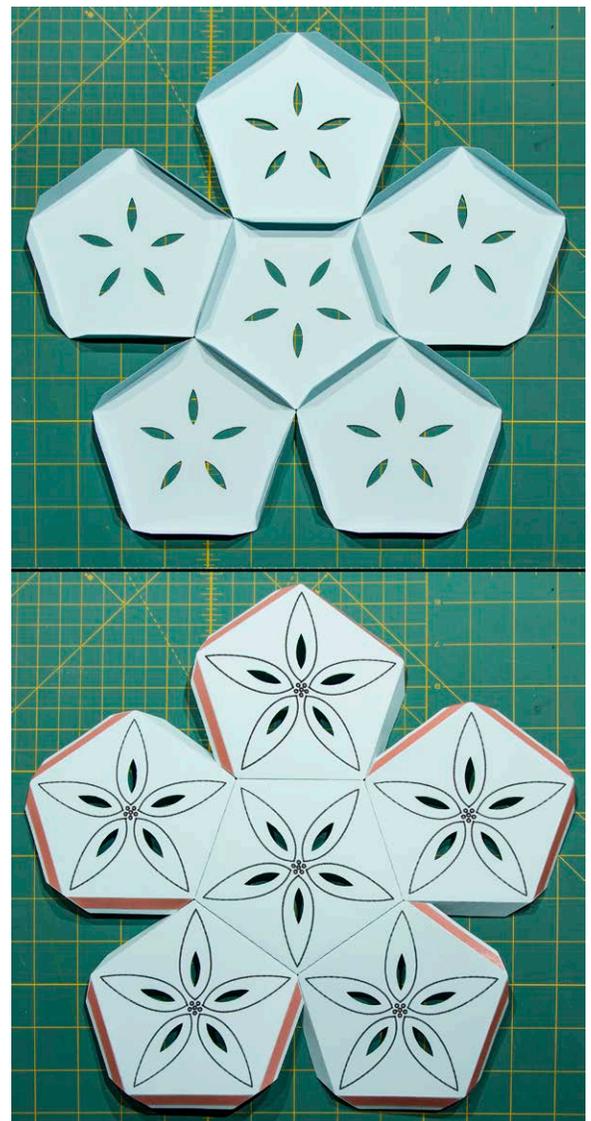


Figure 29

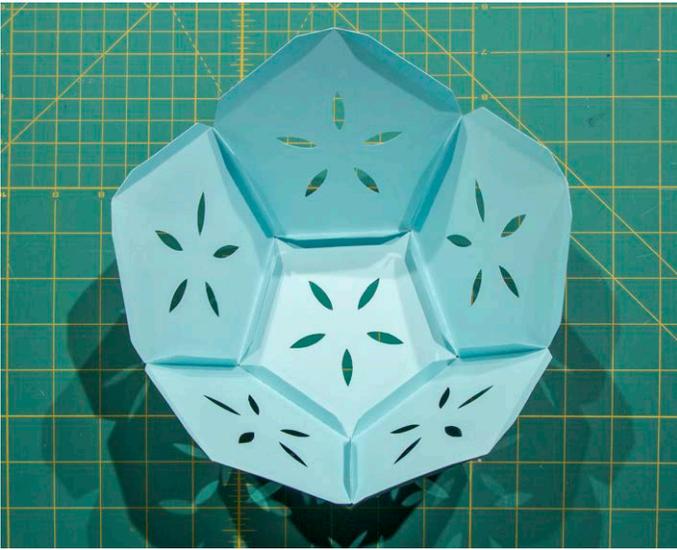


Figure 30

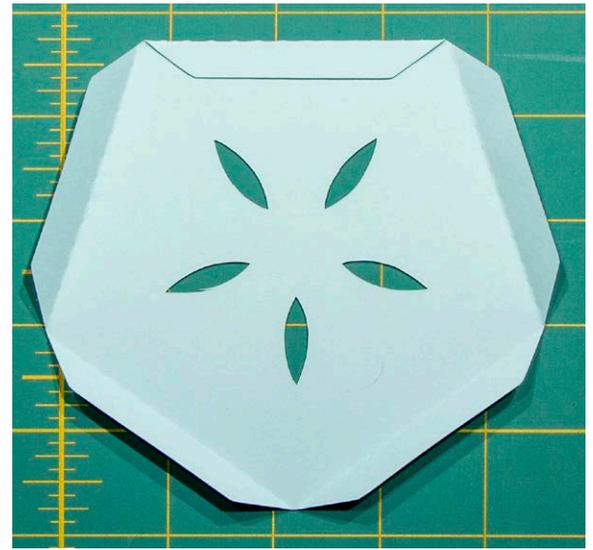


Figure 31

H. Attach the remaining five pentagons (F) to the “bowl”. Position such that the two tabs opposite the folded edge are attached to the “valleys” on the edge of the bowl. In other words, the folded edges should all be at the top when the pentagons are positioned correctly. **(Figure 33)**

I. Secure the side tabs of the top row of pentagons. **(Figure 33)**

J. Turn the lantern so that the opening is face down on the table. Place it over an LED candle or puck light and enjoy!



Figure 32

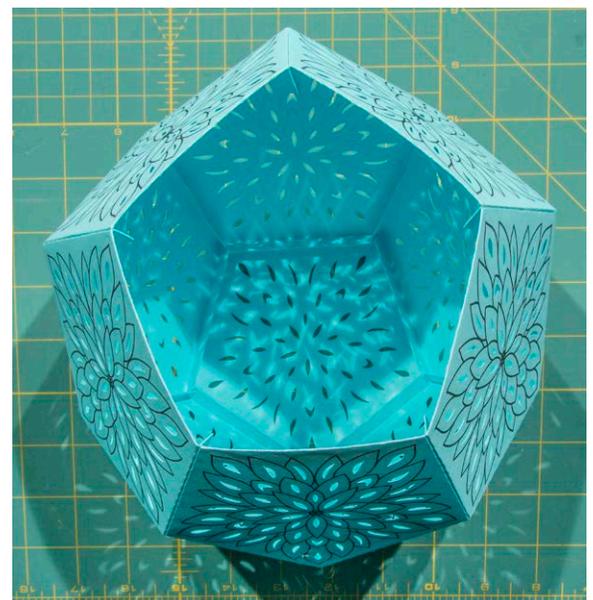


Figure 33

# Pentagon Lantern Template

