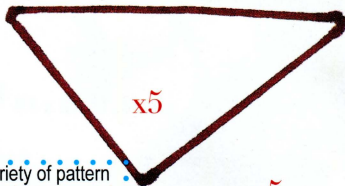


Both shapes Dichroic on black by CBS:
Emerald, Blue/Gold, Violet, Pattern Puzzle
on Rainbow 1, Square .5

Pin Wheel
Pattern



A variety of pattern line colors are used to indicate individual petal shapes. The shapes are layered to conserve space on the page. Cut the shape ignoring inner lines of other colors. The number of petals to cut per shape is given in red within the shape. Find the System 96 glass color used as pictured in yellow on each petal.

Patterns and Tips

General instructions: Always use fusible & compatible glass. Fuse glass on kiln shelf paper. Treat molds with MR-97 Boron Nitride glass separator before each firing. The tips are listed by letter which corresponds to letter found by image on front.

Suggested Firing Schedules

Seg.	Rate	Temp (F)	Hold
1	275	1000	15
2	200	1225	30
3	250	1240 Slump 1300 Lt Tack 1400 Tack 1470 Full	10
4	9999	960	90
5	100	820	1

A. Place the small triangle petals in a star shape under the alternating larger petals with small void in center for hole and tack fire. Place fused blank face down on GM139 XL Cone Former and slump fire. See *Stemming Instructions**. A video tutorial for this flower can be found on YouTube "Fused Glass Lily"

B. Place large petals down in star pattern with void in center for hole. Place small petals on top on line between large petals. Cut a 1" dia. circle of glass to fire separately. This circle will cover the screw upon stemming. If desired, apply frit to circle and lightly on center of small petals. Tack fire glass. Place fused glass face up on GM140 Fan Former and slump fire. See *Stemming Instructions**.

C. Place large shapes down in star pattern with void in center to form 1/2" hole. Place small triangles on the gap between large shapes with point towards center. Cut a 1" dia. circle of glass to fire separately. This circle will cover the screw upon stemming. Tack fire glass. Place fused glass on GM140 Fan Former and slump fire. See *Spinning Hardware*** and *Stemming Instructions**.

D. Sprinkle fine grain Black frit into the edge of wings, body and wings near body of butterfly cavity of mold LF107. Sprinkle a dusting of powdered Cobalt in wings to fill low lines. Fill remainder of cavity with medium grain Hydrangea frit. 3.5 oz of frit total. Add two 5" pieces of 20 gauge bare copper wire with 1/2" into frit at the top of the head. Fire to full fuse. If desired wire glass to copper tube.

E. Sift powdered or fine grain frit of choice into edges and center of flower cavity of mold LF103 and of leaf cavity of mold LF102. Cut three 1/8" x 1/2" strips of 1/8" fiber paper. Wrap the strips with 1/2" x 1" piece of kiln shelf paper. Place this fiber plug vertically into the center of the flower in the mold. Fill cavities with medium grain frit of choice. Flower = 7.5 oz total, leaves 1 and 1.5oz total each.

Place 5" of 16 gauge bare copper or nichrome wire with 1" into frit at stem area of each leaf. Cut 1" dia. circles of glass of desired color and adorn with frit to serve as flower centers to glue on top of screw. Fire molds and glass to full fuse. Slump fire the fused glass on GM 48 Ripple Drape (red flower) or on GM51 Slump/Hump (white flower). See *Stemming Instructions**. Add leaves to stem.

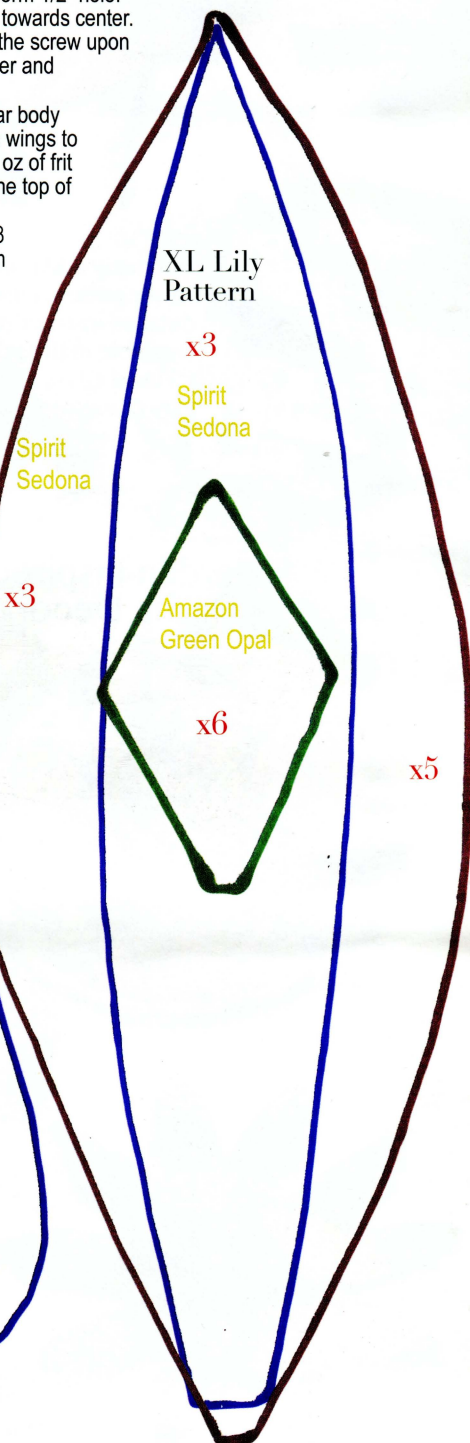
F. To create bowls with frit cast Daisy, Sunflower, Leaves and Butterfly, first sift powdered/fine frits in molds for fine detail and fill the remainder of the mold with medium grain frits. Suggested fill weights : Daisy 7.5 oz, Leaves 1.5 & 1 oz, Butterfly 3.5 oz, The Sunflower 17oz. Fire molds with glass to full fuse. To combine flowers, leaves and butterflies on one design (see photos), arrange and overlap shapes in kiln and tack fire it. If desired, slump fire the tacked pieces on slump mold. The frits used to create the group "F" pieces: double daisy w/ leaves - F1 Turq. Green, F1 Cobalt, F2 Red Reactive Clear (in center over Turq. Green), F3 Lilac Leaves- F1 Cobalt, F2 Yellow, F3 Alpine blue Sunflower - center = F1 Turq. Green /F2 Red Reactive Clear, petals F1 Cobalt, F1 Orange, F2 Apple Jade, F3 Sea Green. Butterfly - F2 Black, F1 Marigold, F1 Orange Opal, F3 Orange. Single slumped daisy - F1 Chestnut, F1 Orange, F1 Turq. Green, F3 Crystal Opal.

G. The cavities of DT20 Peony Texture mold were filled with a variety of colors of transparent med. grain frit. An 11" dia. circle of Double Thick Clear glass was placed on the mold over the frit and fired to a full fuse. The fused glass was slumped fired into GM125 Lg Round Slump.

***Stemming Instructions** - Use a pipe cutter to cut the desired length of 1/4" dia. copper tube. The inward facing flange created at the cut end of the pipe will act as a thread for the screw. Select a rubber washer that is slightly larger than the hole in the glass and a 1/2" dia. #8 metal washer. Place the rubber washer on the front of the glass and the metal washer between the glass and the pipe. Insert a 1.5" l. #8 screw through the washers and glass and into the hole at the end of the copper tube. Tighten the screw until the glass is held firmly but be careful not to over tighten and break the glass.

See the video tutorial on YouTube "Fused Glass Lily" for more details.

****Spinning Hardware** - A kit is available ("spinkit") which contains 5 sets of the following: sleeve bearing, threaded aluminum spacer, rubber washers, flat washer, flat head machine screw. Place the sleeve bearing into the hole in the center of the pin wheel, place a rubber washer on both sides of the glass on the sleeve bearing. Use E6000 glue to adhere the rubber washers to the glass on both sides making sure that the bearing is not at an angle from front to back. Allow the glue to set. Thread the threaded spacer all the way onto the screw. Apply a lubricant such as Boron Nitride spray (MR97) to the outside surface of the threaded spacer. Insert the screw with spacer into the bearing that should now be glued into the glass with the rubber washers. Place flat metal washer on screw behind bearing and thread screw into copper tube (see stemming instructions). Do not over tighten as the bearing must rotate freely on flat washer.



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