

**Magless Event via Zoom**  
**Sponsored by the National Capital Art Glass Guild**  
**March 21, 2021**

**“Puddleflies” brought to you by Maureen Storey:** “Puddleflies” are made from pebbles – a byproduct of puddles. Puddles can be made in myriad colors and the resultant pebbles can be incorporated as elements in larger pieces, such as plates or bowls or as pendants. Moreover, pebbles can be broken down further into so-called “fancy” frit. Pebbles can also be made into unique, colorful, fanciful butterflies or “puddleflies.”

**Making Puddles:** Cut six 3” squares of glass and stack one on top of the other. I use ThinFire to protect the kiln shelf. Full fuse the stacked glass using the firing schedule below. Leave plenty of space between the puddles because they spread to about 4½” with full fusing.

**Making Pebbles:** Score the full-fused puddle down the middle on its curved side. Then turn the puddle over so its flat side is facing up and the scored, curved side is down. Place the scored puddle on top of two pencils that are on either side of the score. The score is parallel to the pencils. Use a small hammer to sharply, but gently tap the puddle approximately over the score; the puddle should break easily and fairly evenly along the score line. The broken halves of the puddle can be broken down further to make pebbles of the size that you want for your design. Fancy frit can be made from smaller and smaller pieces of the pebbles using the piston and graduated mesh screens.

**Making Body Buttons:** To contrast with or compliment the colors of the wings, full fuse coarse frit or small ¼” squares of sheet glass. I have an Evenheat Studio 8 kiln that I turn up to HIGH for 45 minutes; no annealing is needed. Small squares of glass and frit round up beautifully with little effort.

**Firing Schedules, Puddles and Puddleflies**

Puddles				Puddlefly				Puddlefly			
Full Fuse (16 h, 50 m)				Contour Fuse (15 h, 31 m)				Drape (16 h, 31 m)			
Step	Rate	Temp	Hold	Step	Rate	Temp	Hold	Step	Rate	Temp	Hold
1	350	1100	0	1	300	900	15	1	300	1175	5
2	225	1225	30	2	500	1100	0	2	Full	900	45
3	Full	1450	35	3	100	1250	10	3	100	700	0
4	Full	900	60	4	Full	1420	10	4	Full	100	0
5	100	700	0	5	Full	900	45				
6	Full	100	0	6	100	700	0				
				7	Full	100	0				

**“Puddlefly” Process:**

1. Cut, stack and full fuse six 3” squares of glass using desired color combinations;
2. Full fuse (see firing schedule above);
3. Score down the middle of the curved top of the puddle;
4. Flip the puddle over so the flat underside is showing up;
5. Create a fulcrum by placing two pencils on either side of the score;
6. Tap the puddle over the score line using a small hammer;
7. Nip puddles into smaller pebbles and full fuse;
8. Cut full-fused pebbles in half to create the “wings”;
9. Place a line of rounded “body buttons” made from frit or squares of glass to form the body;
10. Arrange each half-pebble with the narrower side closest to the line of body buttons;
11. Be sure all the body buttons and wings are touching before contour fusing;
12. Contour fuse (see firing schedule above);
13. Balance the body of each puddlefly over small serpentine formers to bend the wings;
14. Use the draping firing schedule above;
15. If desired, glue a length of copper wire to the underside of the body and stick it into a flowerpot.

## Puddlefly Color Combinations

#	Wings				Body Buttons
	Color 1	Color 2	Color 3	Color 4	Color
1	Salmon Pink	Spring Green	Canary Yellow		Spring Green
2	Orange	Dk Forest Green			Dk Forest Green
3	Olive Green	Plum			Olive Green
4	Jade Green	Pumpkin Orange			Jade
5	French Vanilla	Turquoise Blue	Spring Green	Canary Yellow	Spring Green
6	Tomato Red	Spring Green			Spring Green
7	Orange	Sunflower Yellow	Burnt Orange		Orange
8	Turquoise Blue	French Vanilla	Salmon Pink	Light Cyan Blue	Light Cyan Blue
9	Turquoise Blue	French Vanilla	Reactive Cloud		Turquoise Blue
10	Pink	Avocado			Avocado
11	Pea Pod	White			Pea Pod
12	Deep Cobalt Blue	Almond	Cobalt Blue	Cinnabar	Cinnabar
13	Jade Green	Petal Pink	Clear		Jade
14	Canary Yellow	Black	White		Black
15	Black	Robin's Egg Blue			Robin's Egg Blue
16	Sunflower Yellow	Teal			Teal
17	Avocado	Salmon Pink	French Vanilla	Canary Yellow	Avocado
18	Red	White	Petal Pink		Red
19	Dusty Blue	Warm White	Mink		Dusty Blue
20	Red	Orange	Sunflower Yellow	Teal Green	Red
21	Red	Cobalt Blue	Canary Yellow		

**Notes and Overall Results:** My kilns run hot, so adjust the firing schedules for your own kilns, as needed. Puddles turned out beautifully and spread to about 4½" wide. Be sure to leave room for the spread. With a contour fuse, the "pebbly" wings rounded nicely and the body buttons fused together, but kept the distinct segmented body formation. I draped the contour-fused puddlefly over small serpentine formers that I elevated off the kiln floor with ¼" posts.

**Conclusion:** Glass butterflies are relatively easy to make with sheet glass by fusing or stained glass techniques. But, "puddleflies" have the advantage of being totally unique – just the like the real thing.



Puddlefly Squadron