

Garden Art eBook



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Please note that items numbers listed in these project guides are suggested items that can be purchased at www.DelphiGlass.com. The items may not always be identical to those used in these project examples and are subject to change.



Fused Garden Stakes

Personalize your garden with custom garden stakes. Created using summer pre-cuts, these are fast and fun to make and add personality to your garden.

Materials:

- Fusible Glass
- 1 Medium to use as your base glass
- Your choice of summer fusible pre-cuts
- Vegetable and Herb Decals (30460)
- 15" Metal Plate Stake (one for each) (30386)
- Shelf Paper (7405)
- E600 adhesive (8919)

Instructions:

1. Cut base glass for each pre-cut, projects shown only used one layer.
2. Cut out desired decals and soak in water. Once decals separate from paper, slide onto glass and into position. Pat with dry paper towel to remove excess water and air bubbles. Allow to dry.
3. Place base glass on kiln shelf lined with shelf paper and arrange pre-cuts on tops and fuse. Note: Project shown was made using 96 COE glass fired to 1275° F. See glass manufacturer's recommended firing schedules.
4. Adhere metal plate stake to the back of your finished piece with triolyse or other adhesive according to manufacturer recommendations. Allow to cure.
5. Place in garden and enjoy!

Additional project idea:

Use other pre-cuts to add a touch of whimsy to your garden.



Umbrella Garden Stake

This garden stake scene makes you yearn for an umbrella over your favorite beach chair.

Materials:

Spectrum/Uroboros Fusible Glass:

- Clear Glass 12"x12" (X100)
- White Opal (X200)
- Lilac Opal (X24074)
- Celadon Opal (X22872)
- Sky Blue Transparent (X5331)
- Caribbean Blue Transparent (X5321)
- Aqua Transparent (X5333)
- Navy Blue Transparent (X5386)
- Dark Amber (X111)
- Almond (X21072)

Frit – Medium/Coarse:

- Water Clear Transparent System 96 Frit - Coarse (XF0105)
- Sky Blue Transparent (XF3003)
- Deep Aqua Transparent (XF53333)

Stringers – Black

Tools Needed:

- Glass Cutter, Running Plier, Wheeled Nippers, Tweezers

Supplies Needed:

- Glastac
- Candle for bending stringer
- Rubbing Alcohol and paper towels
- Hair Spray Aerosol

Note: Size project to fit your favorite display stand.



Studio Prep Instructions:

1. Cut clear glass into 9½" square before cutting circle.
Cut 8½" clear glass circle, to fit in garden stake. If not using Garden Stake, use 8" pre-cut clear circle.

Workshop Instructions:

1. Clean glass circle with rubbing alcohol and paper towels.
2. Umbrella – *Picture 1*
 - a. Base Layer: Lay Pattern A under clear glass and trace. Umbrella is approximately 2¾" x 6 ¼".
 - b. Design layer of Umbrella: Using the actual glass umbrella as your template, cut the art glass as desired for sections of umbrella.
 - c. Cut skinny strip of glass for umbrella post. A glass noodle would also work.
3. Chair – *Picture 2*
 - a. Cut White glass into ¼" strips. Using Pattern A as guide, lay out strips to create chair.
4. Sailboat – *Picture 3*
 - a. Cut ¼" strip of Dark Amber for boat.
 - b. Create sails with chips of nipped triangle shaped glass.
 - c. Cut a black stringer to create mast for sailboat.
5. Glue with Glastac glue all key components in this order:
 - a. Umbrella
 - b. Chair
6. Nip glass for “sand” and “water”.
 - a. Nip along the “long” side of glass to get longer skinnier pieces. *See Pictures 4 & 5*
 - b. Do this technique for Almond glass (for sand), shades of transparent blues (for water)
7. Laying out water area – *Picture 6*
 - a. Start with a straight line of Navy Blue transparent for horizon
 - b. Then another straight line of the Aqua transparent glass.
 - c. Begin filling in the Sky Blue and Caribbean Blue glass throughout the water area.
 - d. Glue first layer down with Glastac Glue.
 - e. Repeat a second layer on water area.
8. Laying out sand area
 - a. Layout two layers of sand in the desired area.
9. Insure that all components are glued in place.
10. Glue Sailboat on the horizon.
11. Birds:
 - a. Cut Black stringers into ¾" sections. Need four sections.
 - b. Hold stringer, with tweezers, about a ⅓ of the way down the stringer.
 - c. Hold in flame of lighted tea light candle.
 - d. Stringers will bend downward. Remove from flame.
Stringer will be HOT – DO NOT TOUCH yet.
 - e. Match up two stringers to create birds. *Picture 7*
12. Sky:
 - a. Mix up frit for sky to the following ratio:
 - i. Water Clear – 3 parts
 - ii. Sky Blue – 2 parts
 - iii. Deep Aqua – 1 part
 - b. Hairspray entire surface and sprinkle frit for sky.
 - i. OPTIONAL: White Opal can be added for Clouds.

Umbrella Garden Stake



Picture 1



Picture 2



Picture 3



Picture 4



Picture 5



Picture 6



Picture 7

Umbrella Garden Stake
Pattern A



Surfboard Garden Stake

This garden stake scene makes for a sunny reminder of relaxing days at the beach.

Materials:

Spectrum/Uroboros Fusible Glass:

- Clear Glass 12"x12" (X100)
- Sunflower Yellow Opal (X26772)
- Orange Opal (X602702)
- Aventurine Blue (X138AV)
- Green on Dark Green Oasis Streaky (U6077)
- Sky Blue Transparent (X5331)
- Caribbean Blue Transparent (X5321)
- Aqua Transparent (X5333)
- Navy Blue Transparent (X5386)
- Dark Amber (X111)
- Almond (X21072)

Frit – Medium:

- Water Clear (XF0103)
- Sky Blue Transparent (XF3003)
- Deep Aqua Transparent (XF53333)

Stringers – Black; others as desired for decorating surfboards

Tools Needed:

- Glass Cutter, Running Plier, Wheeled Nippers, Tweezers

Supplies Needed:

- Glastac
- Candle for bending stringer
- Rubbing Alcohol and paper towels
- Hair Spray Aerosol

Note: Size project to fit your favorite display stand



Studio Prep Instructions:

1. Cut clear glass into 9 ½" square before cutting circle. Cut 8 ½" Clear glass circle, to fit in garden stake.
if not using Garden Stake, use 8" pre-cut Clear circle.
2. Save remaining clear strips for surfboards.

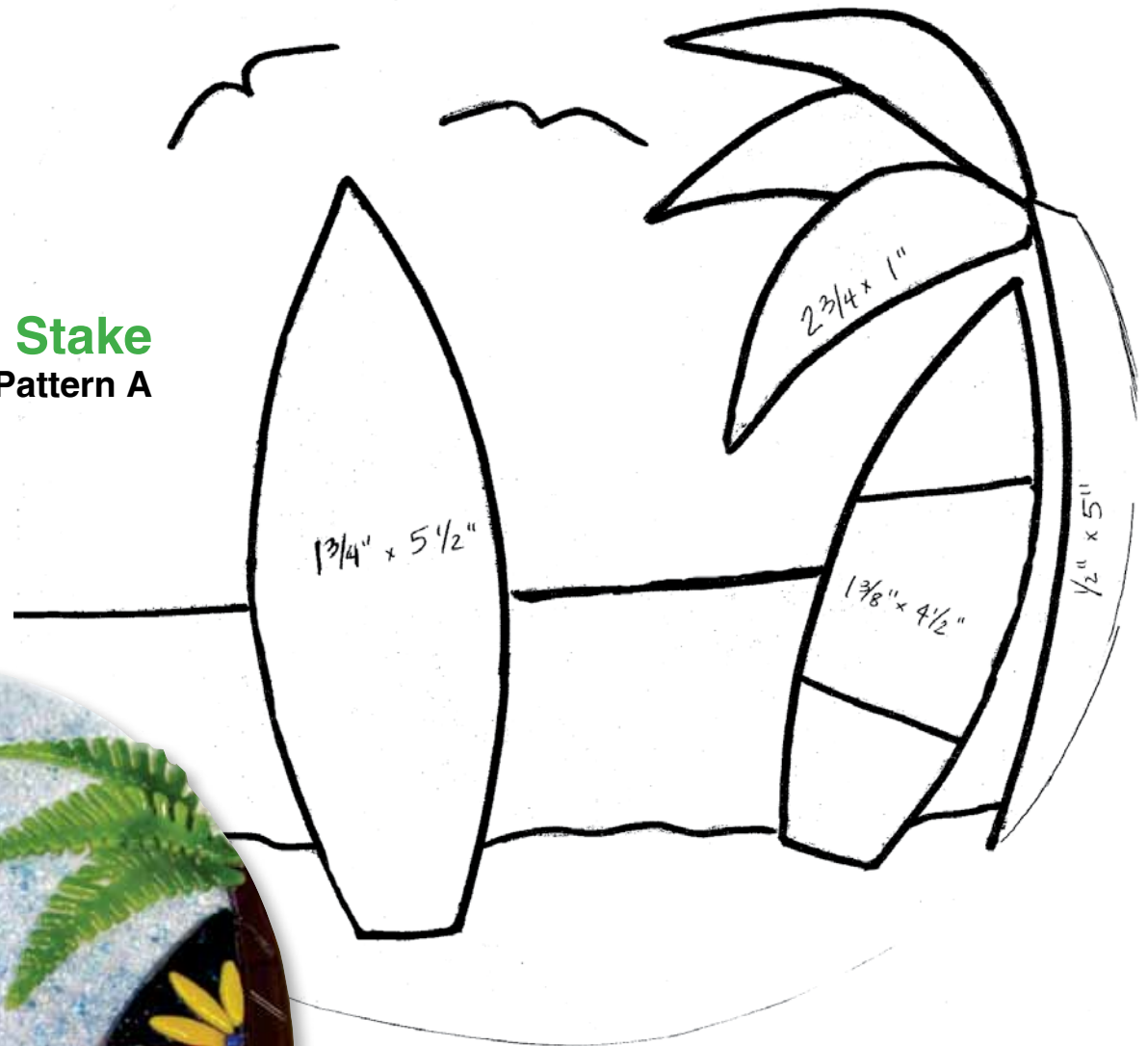
Surfboard Garden Stake

Workshop Instructions:

1. Clean glass circle with Rubbing Alcohol and paper towels.
2. Using leftover clear glass, cut two surfboard bases (*See Pattern A*)
 - a. 1 ¾" x 5 ½"
 - b. 1 ¾" x 4 ½"
3. Using the actual glass surfboard as your template, cut the art glass as desired.
See Pattern A & Picture 1
4. Cut palm tree trunk from dark amber glass: (*See Pattern A*)
 - a. ½" x 5" strip
 - b. Lay circle base on top of strip. Trace outside curve of trunk to match the base circle itself. *Picture 2.*
5. Cut palm fronds from green/dark oasis glass (*See Pattern A*).
 - a. Start 1" wide strips x 3" long. Cut curved fronds.
 - b. Optional: Use ring saw to create "cuts" for leaf effect. *Picture 3.*
6. Glue with Glastac glue all key components:
 - a. Palm Tree
 - b. Small Surfboard
 - c. Large Surfboard
 - d. Palm Fronds
7. Design and decorate your surfboard as desired.
8. Glue stringers to tree trunk for an "x" pattern.
9. Nip glass for "sand" and "water".
 - a. Nip along the "long" side of glass to get longer skinnier pieces. *Pictures 4 & 5*
 - b. Do this technique for Almond glass (for sand), shades of transparent blues (for water)
10. Laying out water area – *Picture 6*
 - a. Start with a straight line of Navy Blue transparent for horizon
 - b. Then another straight line of the Aqua transparent glass.
 - c. Begin filling in the Sky Blue and Caribbean Blue glass throughout the water area.
 - d. Glue first layer down with Glastac Glue.
 - e. Repeat a second layer on water area.
11. Laying out sand area – *Picture 7*
 - a. Layout two layers of sand in the desired area.
12. Insure that all components are glued in place.
13. Birds:
 - a. Cut Black stringers into ¾" sections. Need four sections.
 - b. Hold stringer, with tweezers, about a ⅓ of the way down the stringer.
 - c. Hold in flame of lighted tea light candle.
 - d. Stringers will bend downward. Remove from flame.
 - e. Stringer will be HOT – DO NOT TOUCH yet.
 - f. Match up two stringers to create birds. *Picture 7*
14. Sky:
 - a. Mix up frit for sky to the following ratio:
 - i. Water Clear – 3 parts
 - ii. Sky Blue – 2 parts
 - iii. Deep Aqua – 1 part
 - b. Hairspray entire surface and sprinkle frit for sky.
 - i. OPTIONAL: White Opal can be added for Clouds.



Surfboard Garden Stake Pattern A



Butterfly Wind Chime

This butterfly wind chime is simple and beautiful!

Materials:

- Clear Glass (X100)
- Transparent Glass – Your choice
- Orange (X171)
- Tangerine (X1702)
- Pale Blue (X1308)
- Shades of blues

Frit – Transparent Medium – Your choice

- Clear Frit (XF0103)
- Sly Blue (XF3003)
- Light Orange (XF1503)

Glassline Paint – Black (802002)

Glastac Glue (B8234)

Small Ring/Link Mold (77887)

Boron Nitride (2055)

17 Gauge High Temp Wire (450417)

Monofilament

Ribbon, or String

Paint Stick (Large One)

Split Ring (Med/Large)

Glass Tools:

- Cutter, Running Plier and Nippers



Studio Prep Instructions:

1. Cut clear 6" x 6" glass into sections of Butterfly: a. Body: $\frac{3}{4}$ " x 3 $\frac{1}{2}$ " Strip b. Wings: 3" x 6" panels
2. Make copies of cut pattern (A) for wings.
3. Prep mold with Boron Nitride.

Butterfly Wind Chime

Workshop Instructions:

1. Lay Wing and Body pattern out under clear glass and trace it on the glass with Black Sharpie marker/pen. *Picture 1*. Score and break out both wings and body.
2. Lay out detailed wing pattern under the cut out wings and trace on detailed sectioned, with Black Sharpie. *Picture 2*.
3. Go over the traced lines with Black Glassline paint. In addition, add any detailed work in the wing area as desired. *Picture 3*. Set aside and allow Glassline to dry thoroughly. (Placing them in the sun or on top of a warm kiln will help it dry faster).
4. While the paint is drying, trace the detailed wing pattern onto transparent glass for the two top and bottom wing sections. *Picture 4*. Score and break glass.
5. Bend High Fire Wire into eight "hangers". See *Picture 5* for idea of how to bend. The slight curve at the bottom of wire helps to prevent slipping.
6. Glue "hangers" onto glass. One at the top of each wing and body. At the bottom of wing, place two wires; and one on the bottom of body. See *Picture 8* for positioning.
7. While glue is drying on wire hangers. Nip transparent glass into small chips to be used for border. *Picture 6*.
8. Begin to glue down chips of glass around the border. Start with covering the wire. *Picture 7*.
9. Cover entire border surface with the exception of the small outside area which separates the bottom and top wing sections. *Picture 8*.
10. Cut strip of solid color to cover the body. *Picture 9*.
11. Mold should have been prepped ahead of time. Mix up frit for small glass rings, which act as the chimes for this project, to the correct ratio of 2 parts colored medium frit to 1 part clear. Fill the mold generously – see the bottom two rings in *Picture 10*. Mix in small cup, do not mix frit in the mold. See *Picture 11* for fired version of rings.
12. Fire all to Full Fuse.



Assembly Instructions:

1. Cut painter's stirring stick or yardstick to 6½" using saw or hand hack saw.
2. Drill tiny holes in slat in the center of the slat. There are two holes per each wing and body. The last two holes are to hang the entire wind chime. Drill bit size is the smallest you can find – 3/32" or 1/16" will do. See *Pattern B* and/or *Picture 1* for placement.
3. Tie your glass rings to the ribbon or string you plan to use. Then tie the ribbon to the wings and body. BE SURE to line up so that the glass rings will tap into each other when hanging.
4. Using Monofilament (fishing line), determine your length of line – then double it! You will use a "ring knot" to attach fishing line to the wire.
5. Run fishing line through the slat in the drilled holes. *Picture 1*.
6. Tie several knots in the fishing line, on the top of the wood slat to secure. *Picture 2*.
7. Cut twenty inches worth of fishing line and run through the outside holes on wood slat. Start from the bottom and pull through to the top. Secure each end a split ring or some other ring to hang the wind chime. *Picture 3*.



RING



Picture 1



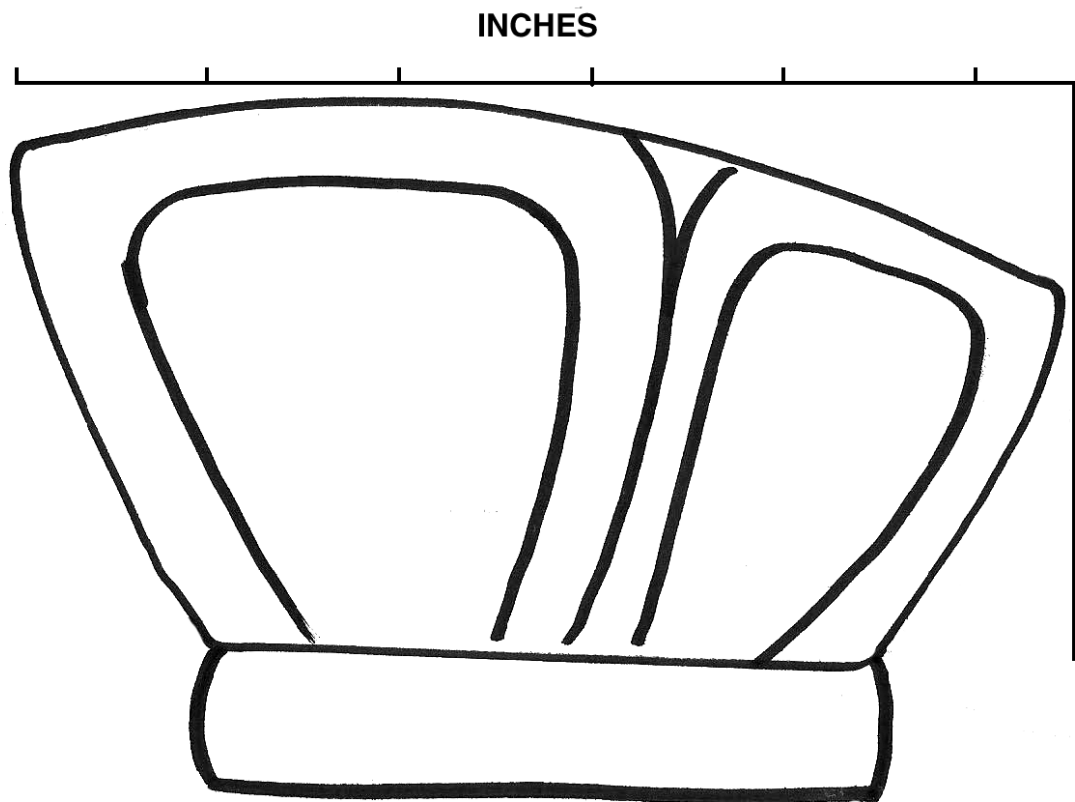
Picture 2



Picture 3

**Butterfly
Wind Chime**

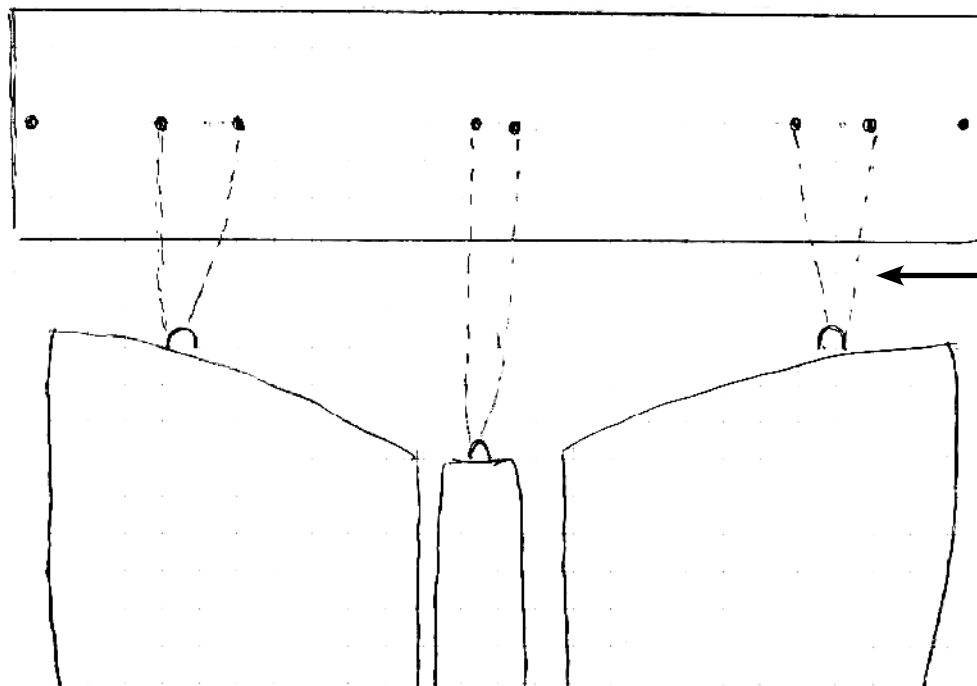
**Butterfly Wing
3" x 5½"**



Wood Slat - Hole Template*

* Confirm this matches the wire placement

**Wood Slat
Hole Drilling
Template**



- Fishing Line**
1. Start at the underside of slat.
 2. Push line through hole.
 3. Knot on top side of slat

Fairy Princess Garden Stake

Materials:

- White Opal – 1 Medium (B001330)
- Pink Opal – 1 Small (B042130)
- Amber Medium Frit (B113782)
- Black Opal Fine Frit (B010081)
- Red Opal Powder Frit (B012488)
- Magenta/Green on Black Dichroic (94213)

Optional: Liquid Stringer Medium (40900) or Glastac (B8234)

Instructions:

1. Measure opening in garden stake for overall project dimensions (approximately 7¹/₂" diameter) and size pattern (below) to fit.
2. Cut White Opal glass to fit garden stake opening.
3. Cut 2 Pink Opal circles to make rosy cheeks.
4. Cut 2 Dichroic glass circles to form eyes.
5. Clean all glass pieces.
6. Place white glass on a prepared kiln shelf.
7. Using pattern for reference, position pink circles as cheeks and dichroic circles as eyes. Note: A small drop of Glastac can be used to secure pieces.
8. Apply Amber frit to an almond shaped area at the top of the panel.
9. Optional Step: Mix black powder frit with liquid stringer medium.
10. Apply a narrow border of black frit along the amber frit. Decorate with chips of scrap dichroic, 90 COE millefiori or colorful glass.
11. Use black frit to add eyelash lines and pupils to eyes, detail the nose, mouth and chin.
12. Optional Step: Mix red opal powder frit with liquid stringer medium.
13. Create lips with red frit.
14. Fire to a tack fuse to medium fuse.
15. Clean the fused face and install in garden stake using clear silicone adhesive.

Note: Size project to fit your favorite display stand.



Original design by Artist Julie Haan.

Fairy Princess Garden Stake Face Pattern



French Cottage Birdhouse

A Mosaic Project

Finding a treasure at a garage sale or thrift store is fun, but creating something stunning from your find is even more fun! Turn a wooden worn birdhouse into a beautiful mosaic where any bird would love to roost!

Designed by: Jeanne Baruth

Skill Level: (Adult 1-5: 1 being the easiest, 5 being most difficult) Level 3

Time to Complete: 4 hours

Project Tip:

A birdhouse doesn't necessarily need to be in the shape of a standard house. This birdhouse was created from a wooden corner cabinet. We simply turned the cabinet on its side and drilled a two inch hole into the door for the bird opening. When breaking up pottery and glass for your project; wrap them in a towel and gently tap them with a hammer. You can then nip the pieces to size with nippers if necessary.

Materials:

- 1 Wooden bird house or a small wooden corner cabinet
- 3 pkgs. Jennifer's Mosaics Vintage Black Toile
- Broken pottery and embellishments as desired
- Tea pot spout and handle
- 2 lbs. White Sanded Grout (#425580)
- Silicone or mosaic adhesive
- Latex gloves • Safety glasses • Mixing spoon
- Scrubby or soft cloth
- Disposable or plastic bowl
- Fine sandpaper
- Wheeled glass nippers (#2039)
- Primer • Paint
- Pencil • Paper
- OPTIONAL: 3/4 diamond core bit drill
- 9" china plates
- One 2 1/2" wood screw
- Four 3/4" wood screws



French Cottage Birdhouse

Instructions:

1. Start with a base for your house. If it has been painted, lightly sand it with fine sand paper to rough the surface and remove any gloss or shine. Wipe off all debris with a clean dry cloth and paint with a primer. Allow to dry.
2. Because birdhouses or whatever you choose to use as a birdhouse will vary in size and shape, start by creating a paper template of each side.
3. Work on one side at a time; place the template on a flat surface. Randomly nip Vintage Mosaics™ Black Toile, broken pottery pieces, and miscellaneous glass tile to completely cover the surface of the template. Leave at least 1/8" between the tile and glass pieces for grout.
HINT: Random placement is the key to mosaics; you can either create your own random design or use the image for a suggested tile placement.
4. When you are happy with the design, it is time to transfer the tile to the surface of the birdhouse.
5. Apply adhesive approximately 1/8" thick. It is also a good idea to spread glue on the back of the larger pieces for better contact and adhesion. Spread silicone evenly using a plastic disposable knife.
6. Move one piece at a time from the template to the surface of the house, press tile gently into the glue. Once all tiles have been applied, allow glue to dry before moving to the next side.
7. The charm of this French Country Birdhouse is created by incorporating glass roses which were found on an old garage sale vase. The vase was broken and then nipped to remove the roses.
8. If using a spout and handle of an old teapot, make sure that you mark the location on the side templates in which you plan to incorporate these items. This will insure that you will leave this space void of tile.
9. Continue to nip and position tile until all sides of the birdhouse have been covered. If you are having a difficult time keeping large pieces in place, use painters tape to hold them into position until the glue has dried.
10. Once you are pleased with your design, it is time to grout. Mix one cup of white grout, following the manufacturer's instructions. Wearing latex glove, spread grout on to the surface of the birdhouse making sure that grout is pressed into all the spaces between the glass pieces. Wait about 15 minutes for grout to set.
11. Gently wipe away excess grout using a scrubby, taking care not to pull away grout from between glass pieces. It is very important to remove any grout on tile surfaces before grout is completely dry.
12. Use a soft cloth to buff glass to a clean shine. Allow 24 hours for mosaic piece to dry thoroughly.
13. OPTIONAL: For additional charm, affix the birdhouse atop two coordinating china plates, we used cream for this project. Fill the center of the plate with water, use a 3/8" diamond core drill bit and drill a hole into the center of each plate. Remove plates from water and dry. Apply glue to the bottom of each plate and place plates so that their bottoms face each other with holes lining up.
14. To affix birdhouse to the plates, cut a 3" x 4" piece of wood. Drill a hole in the center of the wood and thread a 2 1/2" wood screw completely through until it is flush against the wood. Next, drill four more holes on all four corners 1/4" in from the edge of the wood. Center the wooden block at the bottom of the birdhouse so that the heads of the large screw are facing out, towards you. Insert a 3/4" wood screw into each of the remaining four holes and fasten them into the birdhouse.
15. To install the birdhouse onto a post, drill a hole into the desired post. Place the plates on top of the hole and screw the birdhouse down through the plates and into the post.

Garden Cuties Plant Stakes

Designed by Jeanne Baruth for Diamond Tech

Materials:

Lady Bug

- 1 pc Red Glass
- 1 pc White Glass
- 1 pc Black Glass

Dragonfly

- 1 pc Dichroic Blue Glass
- 1 pc Dichroic Green Glass
- 1 pc Dichroic Clear Glass
- 1 pc White Glass
- Fuseworks™ Kiln Paper (#427847)
- Fuseworks™ Microwave Kiln (#424849)
- Glass Cutter
- Running Pliers
- Wire approximately 18 inches per stake
- Miscellaneous beads for embellishments
- White school glue
- Silver Sharpie™ Marker
- E-6000® (#8919) or other glass glue
- Wire Clothes Hanger
- Wire Cutters

Butterfly

- 1 pc Blue Glass
- 1 pc FWhite Glass
- 1 pc Purple Glass
- 1 pc Yellow Glass



General Instructions

(These instructions are the techniques used in all three projects.)

Step 1 Cut glass to designated sizes as indicated in the projects below. Start at an edge placing the cutter perpendicular to the glass. Apply consistent medium pressure while pushing the cutter across the glass. A good score appears as a continuous scratch on the surface. A furrow of glass that looks like sand indicates too much pressure. Break each score with running pliers as you make it. Clean glass using paper towel moistened with water. Completely dry the surface of the glass with a lint free cloth.

NOTE: More cutting tips can be found on www.diamondtechcrafts.com.

Step 2 Next, cut a 2" x 2" piece of kiln paper. Remove the lid from the Fuseworks™ Kiln. Place the kiln paper on the kiln base. Kiln paper should only be used for one firing.

Step 3 Layer the glass on the kiln paper per the specific project directions.

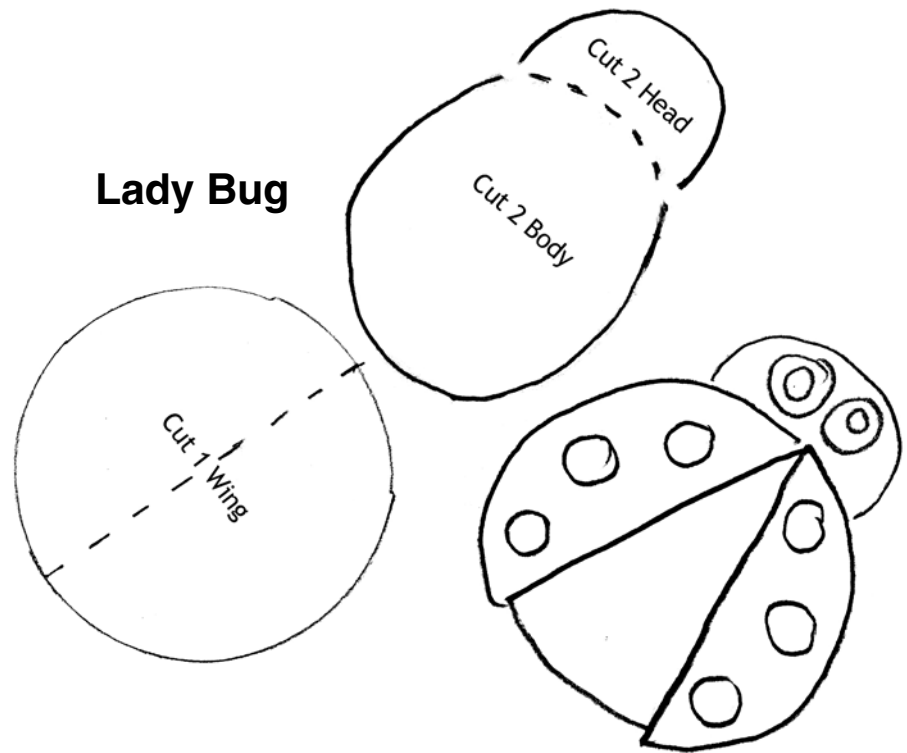
HOT TIP: If you are experiencing your dichroic glass turning dark, decrease your fusing time. If your piece shatters, reduce your power to fuse your piece more slowly. You may need to increase the length of time when you reduce the power.

Step 4 Carefully set the base with glass inside the microwave. Cover base and glass with kiln lid. Fuse using the schedules listed for each individual projects below.

PLEASE NOTE: All microwave and kiln combinations will have different firing patterns. Be sure to take careful notes and log all fusing times for future use.

Step 5 Remove kiln from microwave using the Hot Mitts and place on a heat resistant surface. Cool the kiln on a heat resistant surface for at least 40 minutes with the lid on. Removing the lid or peeking under the lid during the cooling will result in your piece cracking. Glass remains hot for a long time and should be handled with great caution. Cool your kiln completely.

Step 6 Once the pieces are fused and cooled; glue them together with E 6000 glue. Use folded paper to prop-up the parts in place until the glue has dried. Once the glue has dried, wrap the insect and the white plant tag with wire to connect the two pieces. Write the seed or plant name on the white tag with a permanent marker. Cut a wire hanger with wire cutters to a 14" length. Using a plier, bend the hanger to create an "S" on one end, this will act as a hook. Attach the Garden Cutie to the "S" hook by slipping the back wire of the Cutie onto the hook. Push garden stake into a pot or your garden to make them cutesier!



Lady Bug

Directions:

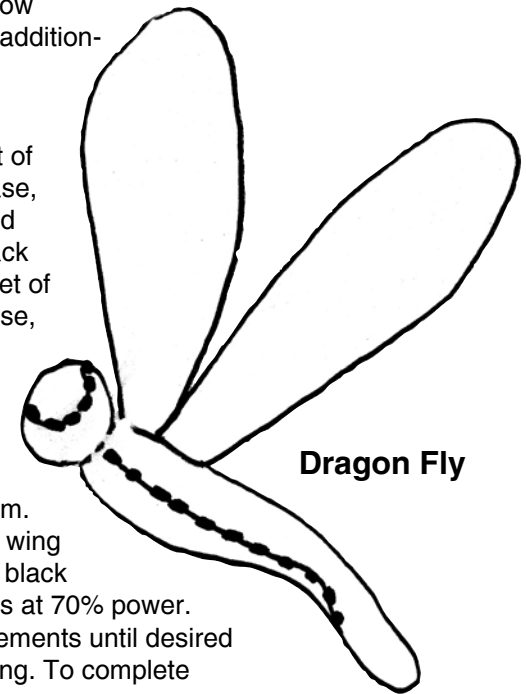
Plant Name Tag

Follow STEP 1 and cut three 1 ½" X 1 ¼" glass squares from white glass. Follow STEPS 2-5 and fuse each tag separately. Fuse at 70% for 2:30 minutes. Add additional time in 15 second increments, if needed until desired results are achieved.

Garden Cuties Plant Stakes

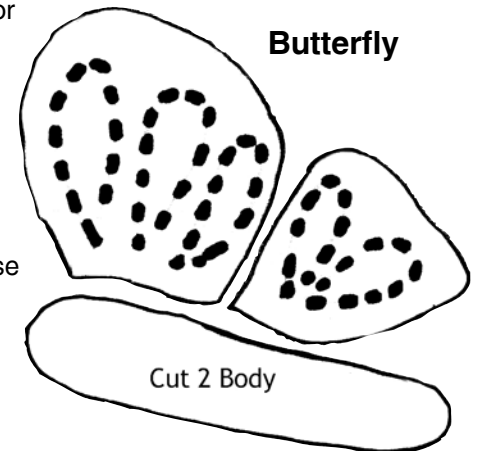
Ladybug

Using a silver Sharpie™, mark off eight 3/8" squares on a sheet of black glass and two 5/8" squares on a sheet of white glass; follow STEP 1 to score and break glass. Follow STEPS 2-5. Place five squares at a time on the base, cover and fuse for 2 minutes at 100% power. Continue to fuse squares until all 10 squares have been fused and form small circles. Next, cut-out pattern pieces for the body and wings, place the body pattern on a sheet of black glass, using a silver Sharpie™ trace around pattern. Follow this same procedure for tracing the wings on a sheet of red glass. Following STEP 1, cut two of head and body. Arrange the glass for the body and head on the kiln base, stack the second piece on top of the base glass. Dilute one drop of white school glue with three drops of water; using a toothpick or small paint brush put a tiny amount of glue on the back of the fused white dots. Place white dot on head portion of the ladybug, these will become the eyes. Next, place a dot of glue to the back of two black dots and place them on top of the white dots, these will act as the pupils. Allow the glue to dry thoroughly before fusing. Follow STEPS 1-5 and fuse body and head at 50% power for 2 minutes, then at 100% for 1 minute 30 seconds. Follow STEP 1, score and cut the red glass circle as show in the diagram. Cut the circle in half to form the ladybug wings. Place a piece of kiln paper on the kiln base to cover. Place one wing on the base and using the diluted glue, place a tiny amount of glue on the back of three of the previously fused black dots. Randomly place them on the wing and allow glue to thoroughly dry. Cover kiln and fuse wing for 2 minutes at 70% power. Using Hot Mitts, lift lid slightly to check glass. If glass has not rounded off add additional time in 15 second increments until desired results are achieved. Remove from microwave and allow cooling for 40 minutes. Repeat process for second wing. To complete ladybug, follow STEP 6.



Dragon Fly

Cut-out pattern pieces for the head, body (2 pc) and wings (4 pc). Place the wing pattern pieces on a sheet of Clear Dichroic glass and using a silver Sharpie™ trace around pattern. Follow this same procedure for tracing pattern for the head and body placing the head on a piece of Clear and Blue Dichroic and the lower part of the on a sheet of Clear and top base of the body on Blue Dichroic cut following STEP 1. Cut an additional 3/8" square of Blue Dichroic Follow STEP 2-5. Fan one set of wings on the base of the kiln so that they overlap. Fuse at 50% for 1 minute. Then fuse at 2 minutes at 80%. Add additional time in 15 second increments until desired results are achieved. Allow to cool completely approximately 30 minutes. Repeat the same process for the second set of wings. Next, fuse the Dragonfly body following STEPS 2-5. Place the Blue Dichroic body on the kiln base, place the small strip of clear on the lower half of the body. Fuse at 50% for 1 minute and 2 minutes at 80%. Add additional time in 15 second increments until desired results are achieved. Fuse the Dragonfly head following STEPS 2-5. Cut an additional 3/8" square of Dichroic Blue. Layer the Blue Dichroic circle on the kiln paper, next add the clear circle, and finish with the 3/8" square of Dichroic Blue. Fuse at 70% for 2 minutes and 30 seconds. Add additional time in 15 second increments until desired results are achieved. Fuse the 3/8" square, the eye following STEP 2-5. Fuse for 2 minutes at 70%. Add additional time in 15 second increments until desired results are achieved. Finish project following STEP 6.



Butterfly

Cut-out pattern pieces for the body, wings and decorative wing inserts, place the body pattern on a sheet of black glass and using a silver Sharpie™ trace around pattern, do this twice. Follow this same procedure for the wings tracing them a sheet of Yellow glass and the decorative inserts on Blue glass. Cut following STEP 1. Layer the two pieces of Black glass on the kiln base. Fuse following STEPS 1-5 at 50% for 2 minute, then again at 80% power for 2 minutes. Fuse one wing at a time, place the yellow glass on the kiln base arrange the decorative Blue glass inserts on top of glass, follow STEPS 2-5, fuse at 50% for 2 minute and then again at 80% for at 2 minutes. Add additional time in 15 second increments until desired results are achieved. To complete butterfly, follow STEP 6.

Faerie Garden House

Materials:

- Fractures and Streamers – 1 medium (X1151)
- Dark Green Transparent Medium Frit (XF0603)
- Amazon Green Medium Frit (XF22643)
- Floral Millefiori Assortment (X94614)
- Mardi Gras Stringer Assortment (XSM96)
- Medium Green – 1 medium (X123)
- Designer Line Fairy Decals (9504)
- Ceramic Candle Cup Set (24667)
- Shelf paper

Original project design by artist Julie Haan.

Instructions:

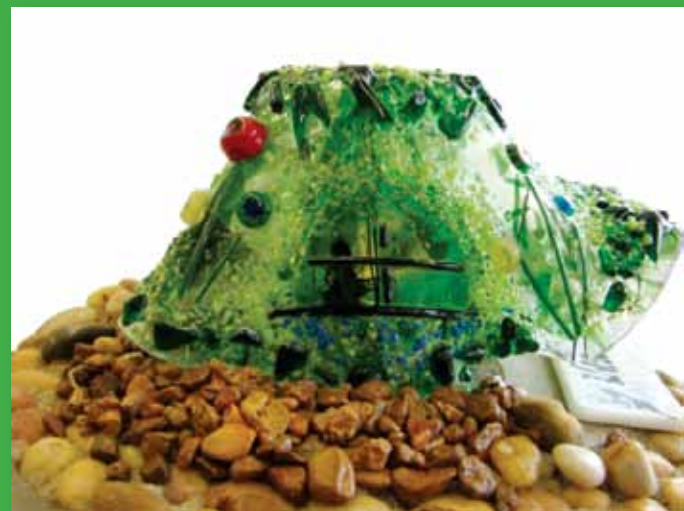
1. Cut a circle of Fractures and Streamers Glass approximately 6-1/2" diameter. Place the circle on a prepared kiln shelf.
2. Add frit, stringers, millefiori and cut green glass to create a landscape design.

Note: the outer edges of the circle will be the bottom of the faerie house; the center is the roof, place decoration accordingly.

Ideas:

- Use millefiori and stringers to create flowers and stalks
 - Cut Medium Green glass to form arch windows, place a fairy decal "inside" the house by adding to the green glass. Use stringers to define window panes
 - Create a mossy texture with green frit
3. Fire to a tack fuse.
 4. Position the tall candle cup mold on a kiln shelf, place a small candle cup mold directly adjacent to it. Cut shelf paper to cover both molds as one unit.
 5. Center the fused glass on the tall candle cup mold and fire to slump.
 6. Clean the finished Faerie Garden House and tuck it into a planter, flower bed or other spot in your garden as a unique accent.

Garden house shown displayed on a stepping stone with river rocks. Find instructions for creating stepping stones in the mosaics section at DelphiGlass.com.



Flamingo Sun Fun Stepping Stone

A Mosaic Project

Designed by: Jeanne Baruth

Skill Level:

(Adult 1-5: 1 being the easiest, 5 being most difficult) 3

Time to Complete:

6 hours (does not include drying time)

Project Tip:

One 5 oz bag of stained glass chips is approximately 50 pieces. This will cover a 6" x 6" area with a 1/8" grout line.

If choosing to grout without gloves, use a vinegar wash to restore the PH to your hands to prevent your skin from drying out.

Materials:

- 1 each – 5 oz. package Jennifer's™ Stained Glass Chips: Black, Pink, Green, Blue, Yellow, Orange, White, Iridized White, Dark Blue
- 1 pkg – Jennifer's Mosaics™ Variety Gems .50: 9 Dark Blue, 1 Black
- 1/2 oz. pkg – Fuseworks™ Millefiori
- Outdoor Cement (#2280)
- 12" Square Stepping Stone Mold (#7941)
- 1 lb White Grout (#425580)
- E-6000® Glue (#8919) or Clear Silicone
- Mixing Bowl and Spoon
- Paper Towels and Newspaper
- Wheeled Glass Nippers (#2039)
- Sponge or Scrubby



Family pastimes can be a whole lot of fun when you work together to create this wacky little Flamingo stepping stone. Place him in the back yard so he can announce to visitors that you're a family that takes your sun and fun seriously.

Flamingo Sun Fun Stepping Stone

Carbon Paper & Pencil Instructions:

1. To protect work area, cover with newspaper.
2. Mix the Outdoor Cement following the directions on the label. Wear a dust mask while mixing.
3. Pour cement slowly and evenly into mold; gently tap sides of mold to release any air bubbles in cement.
4. Do not move mold while the cement is drying. Wait approximately 24 hours (time may vary due to climate) for cement to harden. The cement will warm as it hardens.
5. Once it has cooled and set, remove the stone by turning mold over and lifting up the edges of the mold.
(MOSAIC SHORTCUT: Use a pre-made stepping stone from you local hardware or garden center)
6. Determine the center of the stepping stone by using a ruler and a pencil. Draw a diagonal line connecting the corners, where they meet is the center. Align the center of the pattern with the center of your stone. Place carbon paper between the pattern and the stone, tape to hold in place. Trace the pattern onto the stepping stone and remove pattern and carbon paper.
7. Use the picture as a guide and nip and arrange glass on the entire surface of the stone, leaving approximately 1/8" gap between pieces and at the outer edge. Nip glass pieces with a Wheeled Glass Nipper to fit inside pattern outline. (For nipping instructions, watch a video in our Creative Corner at www.DiamondTechCrafts.com)
8. Once you have achieved your desired look, lift each piece and apply a thin layer of glue to the back. Firmly press pieces onto the stone. Allow glue to dry according to the manufacturer's instructions.
9. To grout the stepping stone, measure 1 cup of grout into a plastic bowl, reserve a few tablespoons of grout and set aside. Adding 1 tablespoon of water at a time to remaining grout, mix with craft stick until the grout reaches "fudge-like" consistency. If it is too watery, add the reserved dry grout in small amounts until the consistency is correct.
10. Wearing a disposable glove spread the grout onto the surface of the stepping stone and into all the spaces between the glass and tile. Wait about 15 minutes for grout to set.
11. Gently wipe away the excess grout using a paper towel taking care not to pull grout out of tile spaces.
It is very important to remove any grout from the tile surface before grout is completely dry.
12. Use a soft cloth to buff the tiles to a clean shine.
13. Allow 24 hours for the mosaic piece to dry.

Flamingo Sun Fun Stepping Stone Pattern

*NOTE: Pattern shown
50% of actual size.*



Mosaic House Number Plaque

by Delphi Artist
Julie Haan

Materials:

- Alphabets (for numbers) (6835)
- Nautica Opal Art (X3355)
- White and Orange Opal (S3751)
- Yellow scrap glass
- Weldbond Adhesive (65106)
- White Sanded Grout (425580)
- 1/2" Plywood cut to accommodate your house number
- Masking or painters tape
- Glass cutter
- Wheeled Mosaic Nippers (2039)
- White Exterior Latex Paint
- Grout Sealer

Assembly:

1. Prepare plywood by diluting 3 tablespoons of adhesive with one tablespoon water. Paint on surface of plywood. Tape the edge of plywood with masking or painters tape.
2. Cut house numbers of your choice from White and Orange Opal. Set in place with adhesive.
3. Cut Nautica Opal Art into 1/2" strips, nip into triangles. Cut yellow squares.
4. Using triangles and squares, fill in background
5. Let dry following manufacturer's recommendation for adhesive.
6. Grout and let dry again following manufacturers recommendation for grout.
7. Remove tape and paint sides and back of plaque with exterior paint.
8. Apply grout sealer and hang.



Compliment your home and grab some new curb appeal with bright, colorful numbers!

Wildberry Mosaic Candle Shelters

A Generation Green™ Recycling Project

BY: Rita Schwab

Skill Level: 2

(1 being the easiest, 5 being most difficult)

Time to Complete:

2 hours

Project Tip

- Always, wear safety goggles when using glass-crafting tools. Everyday eyeglasses have only impact resistant lenses.
- To ensure top performance keep your bottle cutter blade oiled.

Materials:

- Generation Green™ (g2) bottle cutter (#425365)
- One 7.50ML green bottle
- One cork
- One amber colored bottle or amber cathedral chips
- 1 pkg Jennifer's Mosaics™ Cathedral Glass Chips
- 1 pkg of Deco Glass Gems – Small
- Glass Adhesive (#8919)
- 4.3 clay plant saucer (found in any garden center)
- Eyelet Screw
- Wildberry pattern
- Rubber Bumper Pads



(Used for Cabinets and Drawers)

Instructions:

Read and carefully following the instructions contained within the Generation Green™ (g2) bottle cutter manual.

1. Cover the work area with craft or newspaper.
2. Measure 11" down from the top of the bottle and mark with a Sharpie®.
3. Using the bottle cutter, score and separate where indicated.
4. Smooth the rough edges as instructed in the bottle cutter manual.
5. Clean your bottle inside and out with a window cleaner or for a more natural cleaner use a mixture of 1 cup of water to 2 tablespoons of vinegar. Dry glass surface.

Mosaic Tip: When working on a rounded surface it is a good idea to rest your item on an old hand towel or a Ziplock® bag filled with rice. This will keep it from rolling around and make it easier to mosaic.

6. Tape the pattern inside the bottle with the image facing out (FIG. 1).
7. Using a wheeled glass nipper, nip amber colored bottle into 1/8" wide rectangles of varying lengths or nip amber colored cathedral glass in the same fashion (FIG. 2).

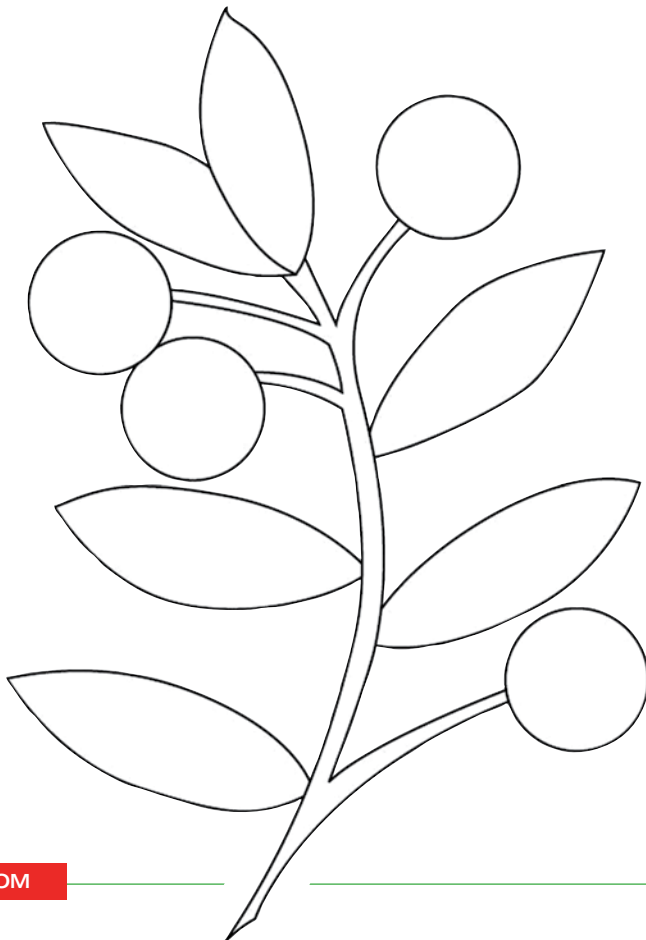


FIG. 1



FIG. 2



FIG. 3



FIG. 4

8. Glue into place where branches are indicated on the pattern and allow glue to set.
9. For leaves, place the green cathedral glass square over the leaf pattern and trace around it onto the glass with a Sharpie® (FIG. 3).
10. Using a wheeled glass nipper, nip away at the glass until you reach the outline of the leaf.
11. You may choose to glue the whole leaf on the surface of your bottle or, further nip them into halves and quarters for a more mosaic-look.
12. Glue leaves into place where indicated on the pattern and allow to dry.
13. Next, glue medium sized glass gems at the tips of each branch.
14. While your mosaic dries, create your cork bottle snuffer. Insert an eyelet screw into the center top of a cork that will fit snugly into the bottle. If using a wine bottle the save the cork removed from the bottle. Thread a 6" length of ball chain or a piece of twine or ribbon through the eyelet and secure in place with a knot. Slip snuffer around the neck of the bottle (FIG. 4).
15. Place 4 rubber bumper pads in the bottom of a 4" clay saucer. Place your Wild Berry Mosaic Candle Shelters and small votive so the shelter rests on top of rubber pads. Display in your garden or on your porch or patio.

Spring Tweets Mosaic Stepping Stones

A Mosaic Project

BY: Rita Schwab and Diana Duvall

Skill Level: 3

(1 being the easiest, 5 being most difficult)

Time to Complete:

3 days

Project Tip

- Use a lazy susan to work on. It makes placing tiles a breeze.
- To save time, use pre-made stepping stones purchased from your local home center.
- Pattern can be enlarged to fit any size stone.
- Never dispose of grout directly down a drain.
- If grouting without latex gloves, pour vinegar over hands to restore skin PH.

Materials:

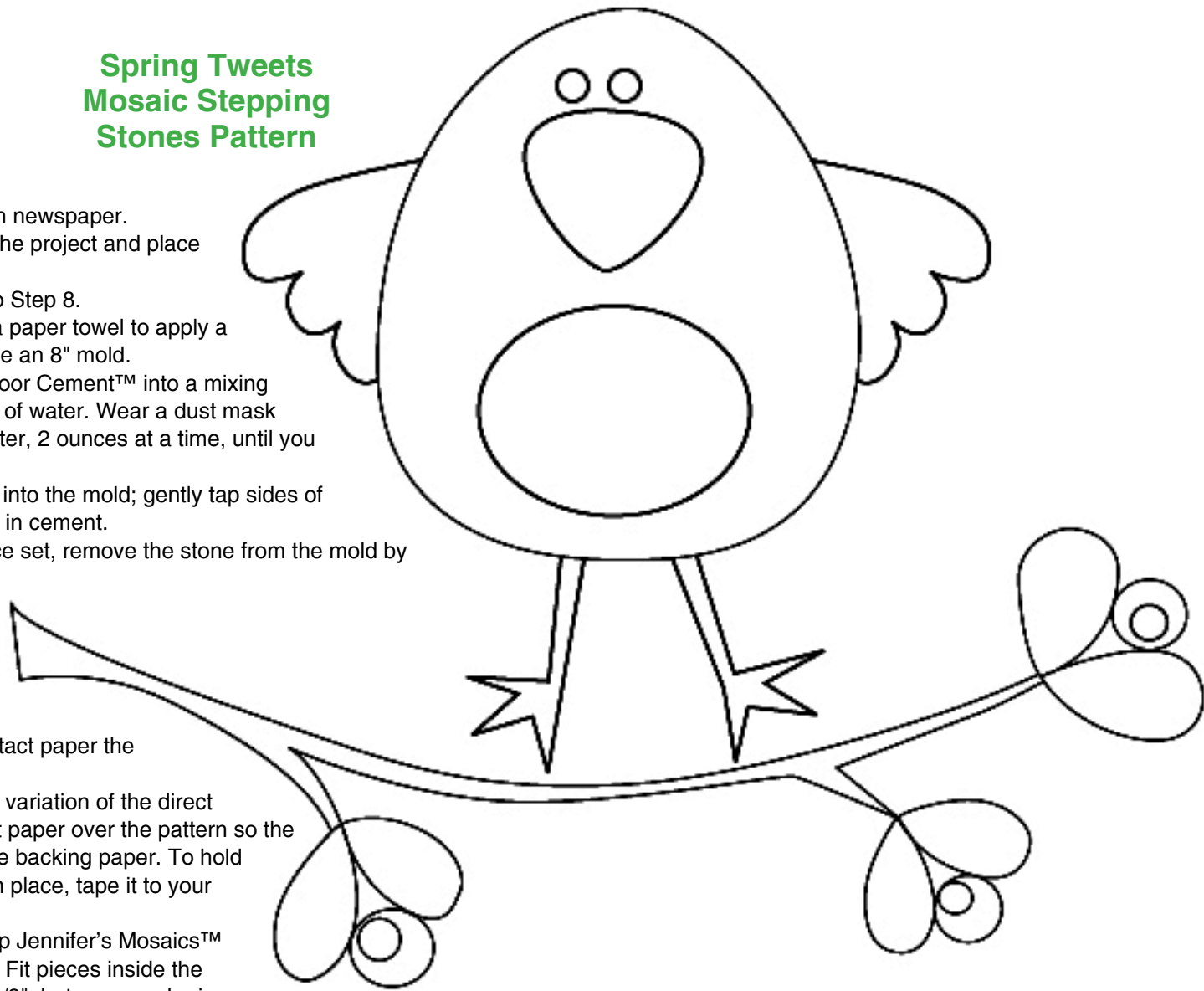
- 8" Precast stone or Round Stepping Stone Mold
- Outdoor Cement (#2280) (Optional)
- Petroleum Jelly (Optional)
- 1 pkg. Jennifer's Mosaics™ each: White, Iridized White, Orange, Green, Variety
- Jennifer's Mosaics™ White Grout
- Wheeled Tile Nipper (#2039)
- Millefiori
- Contact Paper
- E-6000® (#8919) or similar adhesive for indoor/outdoor use
- Plastic Bowl and Mixing Spoon • Newspaper
- Scrubby or Sponge • Safety Glasses
- Rubber Gloves • Soft Cloth
- Painters Tape • Measuring cup and tablespoon



Spring Tweets
Mosaic Stepping
Stones Pattern

Instructions:

1. To protect work area, cover with newspaper.
2. Collect all supplies needed for the project and place them on the work surface.
3. If using a pre-cast stone, skip to Step 8.
4. If casting your own stone, use a paper towel to apply a thin coat of petroleum jelly inside an 8" mold.
5. Place 5 cups of Jennifer's Outdoor Cement™ into a mixing bowl and slowly add 12 ounces of water. Wear a dust mask while mixing. Add additional water, 2 ounces at a time, until you have a pourable consistency.
6. Pour cement slowly and evenly into the mold; gently tap sides of mold to release any air bubbles in cement.
7. Allow to set for 5-12 hours. Once set, remove the stone from the mold by turning mold over and lifting the edges. Allow stone to completely dry for 12 more hours on newspaper before proceeding to the next step.
8. Use scissors to cut out the pattern. Next cut a piece of contact paper the same size as your pattern.
9. Working with contact paper is a variation of the direct method. Place the clear contact paper over the pattern so the backing is facing up; remove the backing paper. To hold the contact paper and pattern in place, tape it to your work surface.
10. Use a Wheeled Tile Nipper; nip Jennifer's Mosaics™ glass tiles into desired shapes. Fit pieces inside the pattern outlines to fill, leaving 1/8" between each piece.
11. Once you are happy with the design, press firmly on the glass to secure it to the contact paper. Remove tape from contact paper and pattern.
12. Apply a thin layer of glue to the top of the stone. Lift stone and place it glue side down onto the contact paper. Firmly press the stone onto the glass and contact paper. Turn stone right-side up and allow glue to dry according to the manufacture's recommendations.
13. Once glue has dried according to the packaging description, peel back the contact paper and remove. Should glass pieces lift out of position, apply glue and realign into the pattern.
14. Tape off around the edges of the stone to prevent grout from staining the sides.
15. Reserve a few tablespoons of dry grout and set aside. Place 8 oz. of white grout into a mixing bowl and slowly add water 1 tablespoon at a time into the grout. Mix with craft stick or spoon until the grout reaches "fudge-like" consistency. If it is too watery, add the reserved dry grout in small amounts until the consistency is correct.
16. Wearing a disposable glove, spread the grout into all the nooks and crannies. Wait about 15 minutes for grout to set.
17. Gently wipe away the excess grout using a paper towel or sponge, taking care not to pull grout out of glass spaces. Use your finger to smooth the grout around the outer edge of the stone. It is important to remove any grout from the tile surface before grout is completely dry.
18. Use the soft cloth; buff the glass to a clean shine. Allow 24 hours for the mosaic piece to dry.



Mosaic House Number Garden Stake

Original design by Delphi artist Julie Haan

Materials:

- Two 12" Dinner Plates
- 3/4" Emerald Green Tile Mix (#426293)
- 3/4" Blue Glass Tiles (#426287)
- 3/8" Dark Brown Glass Tiles (#425129)
- White Sanded Grout, 2 lb. (#425580)
- Silicone Adhesive (#5690)
- Solid White Opal glass (#S200) – Medium
(or coordinating color to match plates)
- Carbon paper
- Pencil

Instructions:

1. Trace numbers onto one plate with carbon paper and pencil.
2. Using silicone adhesive attach 3/8" dark brown tiles to outline numbers.
3. Attach a row of 3/4" blue glass tiles with smooth side down to the inside rim of the plate. Note: We used the back side of tiles to create texture.
4. Fill in around the numbers with blue glass tiles nipped into quarters. Again with smooth side down.
5. Add a row of 3/8" dark brown tiles above and below numbers
6. Attach a row of 3/4" emerald green tiles next to blue glass tiles with smooth side up and approximately 1/8" spacing in between.
7. Nip 3/8" dark brown tiles in half. Place between each emerald green tile.
8. Place a 3/8" dark brown tile at the top of each emerald green tile to complete the pattern.
9. Let adhesive dry for 24 hours then grout up to the green rim.
10. Cut white opal glass to fit garden stake insert. Mount with silicone adhesive. Let dry.
11. Repeat steps 2-9 with second 12" plate following pattern on plate two.

Mounting:

On the back of the mosaic plate run a bead of silicone adhesive along the foot of plate. Mount against center of solid white opal glass in frame of garden stake. Allow to set before mounting second plate to opposite side of solid white opal in garden stake. Let dry a minimum of 24 hours before standing.



Recycle vintage plates into fun yard art with pre-cut mosaic tiles and a little imagination!

Note: Size project to fit your favorite display stand.

Mosaic House Number Garden Stake

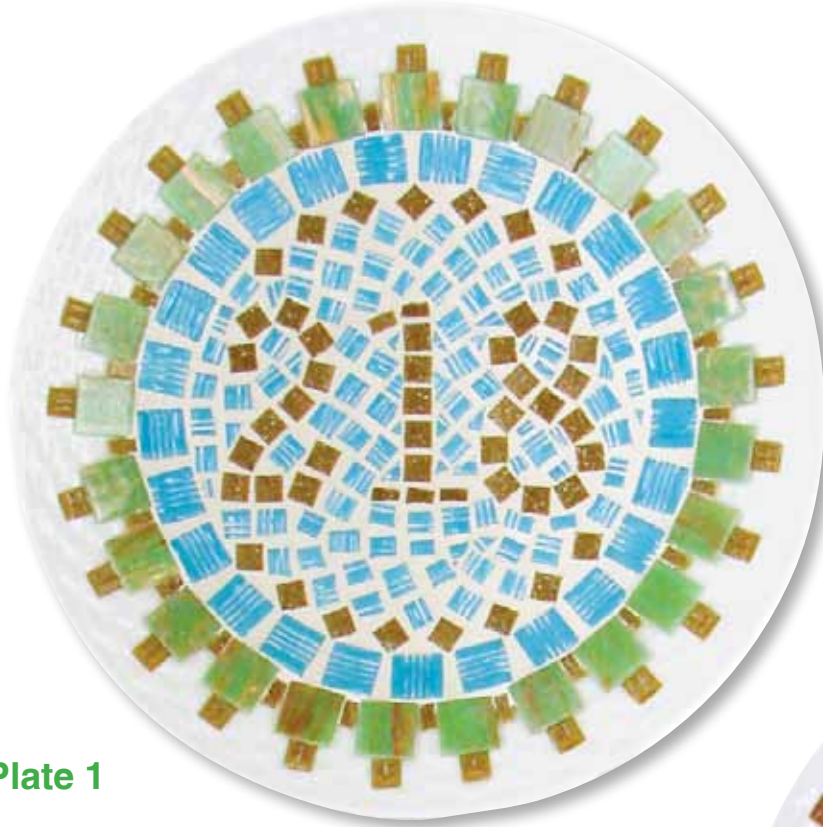


Plate 1

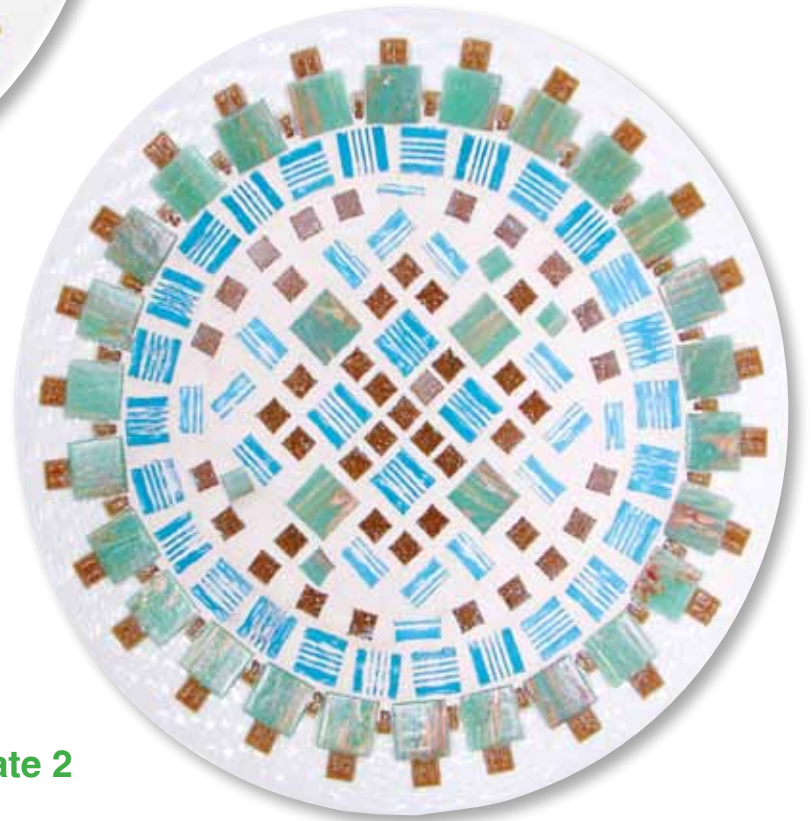


Plate 2

Charming Cottage Birdhouse

A Mosaic Project

Designed by Jeanne Baruth

Skill Level: 2

(1 being the easiest, 5 being most difficult)

Time to Complete:

5 Hours

Project Tip

- If choosing to grout without gloves, use a vinegar wash to restore the PH to your hands to prevent your skin from drying out.

Materials:

- 2 pkgs. – Antiquity Mosaics™ Golden Travertine
- 1 pkg. – Jennifer's Mosaics™ Variety Stained Glass
- 2 pkg. – Jennifer's Mosaics™ Blue Stained Glass
- ½ oz. Fuseworks™ Milliefiori
- Wheeled Glass Nippers (#2039)
- White Grout (#425580)
- 1 Bead (for doorknob)
- Green Stained Glass scraps for leaves
- 1¾" x ¾" Mirror Tile
- Silicone or Mosaic Adhesive (#8919)
- Latex Glove • Safety Glasses • Mixing Spoon • Paper
- Scrubby or Soft Cloth • Disposable or Plastic Bowl
- Fine Sand Paper

Instructions:

1. Start with a wooden birdhouse. Lightly sand it with fine sand paper. Wipe off all debris with a clean dry cloth and paint with a primer. Allow to dry.
2. Because birdhouses will vary in size, start by creating a paper template of each side, you will use this to layout your tiles before gluing them to the surface.
3. Start with the sides. Nip blue stained glass chips in half with wheeled nippers.
4. Place rectangles in a brick pattern. To do so start across the bottom of the template horizontally. Leave 1/8" space between all glass pieces, for grout lines.
5. Center the first rectangle of the second row over the first and second rectangle of the first row. Place the second rectangle over second and third rectangle of the first row. Nip glass to fit where necessary. Continue alternating the position of the glass to form the faux brick façade of your birdhouse (FIG. 1). Do this for both sides and back of house.

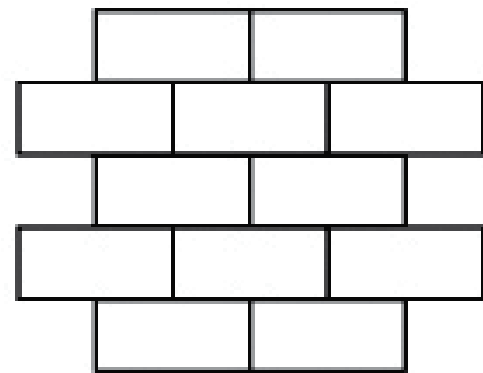
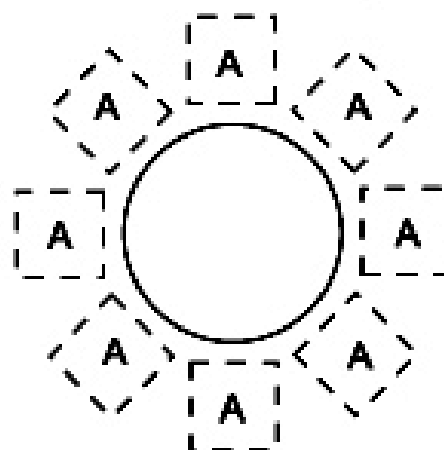


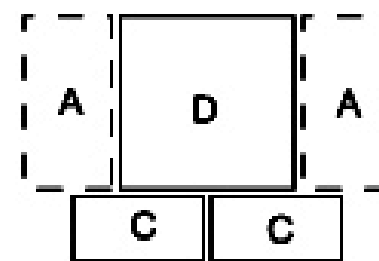
Fig. 1

6. Once tile has been arranged on the template, place a bit of glue on the back of each piece and glue it to the side of the birdhouse. Complete all three sides and allow to dry.
7. Next, use the template created for the front of the house and position the window and door pattern (FIG. 2) on the template.
8. To create the window, place one mirror tile to the right of the door. Nip a white chip in half and place each piece on either side of the mirror for shutters. For the window box, nip two marble Antiquity Mosaics™ tiles in half. Place the halves parallel and just below the mirror tile. Position the remaining two halves on top of them to form a flower box.
9. Randomly arrange milliefiori and thin nipped strips of green stained glass just above the window box.
10. To create the door, nip 4 white glass tiles in half. Place 3 halves vertically side by side, centered at the bottom of the template. Place one and a half rectangles horizontally on top, positioning a metal bead in the same row. Finish by placing the remaining 3 chips vertically across the top. Remember to always leave 1/8" between the rows and the glass pieces.
11. Nip white glass chips into quarters to create 1/2" x 1/2" squares, enough to circle around the opening of the birdhouse. Nip blue stained glass chips into thirds and layout the same as sides in step 3.
12. Our birdhouse had a flat perch at the bottom, which we covered in nipped yellow chips to create a stoop.
13. Once everything is laid out as you like, pick each piece up and glue it to the front of the birdhouse.
14. Embellish the stoop with a tiny mailbox made from polymer clay.
15. Place Antiquity Mosaic™ Golden Travertine diagonally on the roof template. Allow the tiles to extend over the side and bottom edges of the roof but not the top. Nip top tips off of tile to make a straight line (See Photo).
16. Nip marble tiles into quarters and use them to finish the edges of the roof.
17. When you are happy with the design, it is time to transfer the tile to the surface of the birdhouse and glue into place
18. Once glue has dried mix two cups of white grout, following the manufacturer's instructions. Wearing latex glove, spread grout on to the surface of the birdhouse. Press grout into all the spaces between the glass and marble pieces. Wait about 15 minutes for grout to set.
19. Gently wipe away excess grout using a scrubby, taking care not to pull away grout from between glass pieces. It is very important to remove any grout on tile surfaces before grout is completely dry.
20. Use a soft cloth to buff glass to a clean shine. Allow 24 hours for mosaic piece to dry thoroughly. Allow to set before mounting second plate to opposite side of solid white opal in garden stake. Let dry a minimum of 24 hours before standing.

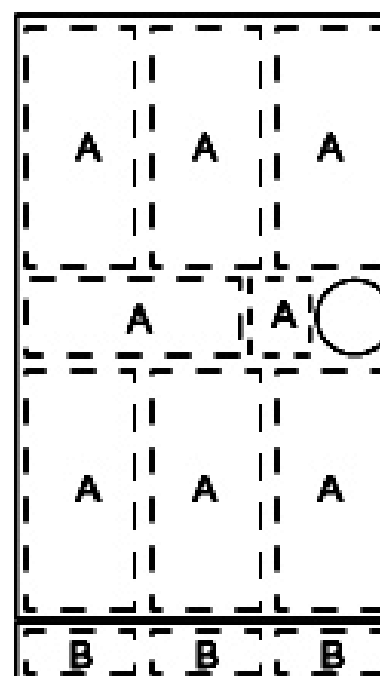
Birdhouse Opening



Birdhouse Window



Birdhouse Door



Legend

A = White Chips
B = Yellow Chips
C = Antiquity Mosaics
D = Mirror