

# Holiday eBook



Fused  
Glass

Mosaics

Stained  
Glass





# Holiday 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](http://www.DelphiGlass.com). The items may not always be identical to those used in these project examples and are subject to change.

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Make classic candies in cheery shapes and colors to accent your holiday village. Use the ideas below to inspire your own designs based on family favorites!

## Goody, Goody Gumdrops

*Gingerbread House and Winter Wonderland by artists Val Oswalt and Julie Haan.  
Fused citrus slices used in project by artist Val Oswalt*

### Fused Citrus Slices

#### MATERIALS NEEDED

Clear Pre-Cut Circles  
Light Green Fine Frit  
Yellow Fine Frit  
Orange Fine Frit  
Clear Stringers  
Glastac Glue

#### DIRECTIONS

1. Cut clear pre-cut circles in half and place on a prepared kiln shelf.
2. Apply Glastac to surface of clear half circles, spread a single color of fine frit on each piece.
3. Break the lengths of clear stringer to form spokes radiating from the center of the straight edge of each half circle and position with a bit of Glastac glue.
4. Fire to a tack or medium fuse to retain the sugar-like texture.

### Mosaic Gumdrops & Candies

#### MATERIALS NEEDED

Clear Fine Frit or Colored Transparent Frit  
in your favorite colors  
Colored glass gems, Millefiori or precut shapes  
Weldbond Adhesive

#### DIRECTIONS

1. Apply adhesive to your glass gem.
2. Sprinkle with fine transparent frit.
3. Allow to dry completely.

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*





Make merry candy accents!

## Creative Candy Lollipops

### MATERIALS NEEDED

White Rods

Colorful Transparent Rods

### DIRECTIONS

#### Flameworked Spherical Lollipops

1. Select white stringers, or heat and pull some white rods to create lollipop sticks. Once cool, cut into approximately 3" lengths. Set aside.
2. Form a gather of molten glass, in a lollipop color, shape with a graphite marble mold.
3. Transfer the formed marble onto a clear punty rod, remove the color rod and finish shaping the other side of the sphere.
4. Using a rod holder, pick up and heat one end of a lollipop stick. Attach the stick to the sphere opposite the clear punty. Heat the connection to the clear punty and burn off.
5. Add a band of matching color around the perimeter of the sphere and marver flat.
6. Place your lollipop into a pre-heated annealing oven to anneal and cool.

#### Flameworked Flat Lollipops

1. Select white stringers, or heat and pull some white rods to create lollipop sticks. Once cool, cut into approximately 3" lengths. (*Note: a portion of the stick will be covered with the lollipop head.*) Set aside.
  2. Form a gather of molten glass in a color desired for a lollipop, rotating the rod constantly to keep the gather spherical.
  3. Using a rod holder, pick up and heat a lollipop stick. Insert partially into the gather of glass.
  4. Heat and burn off the color rod from the lollipop gather.
  5. Use a parallel bead press to flatten the gather, creating a lollipop head. Return to flame, smooth and shape edges as needed with a graphite paddle or other marvering tool.
  6. Place your lollipop into a pre-heated annealing oven to anneal and cool.
- Note: Use tested compatible glass in your fused art to avoid stress breaks.*



Make a classic gingerbread house that lasts for years!

## Glass Gingerbread House

### MATERIALS NEEDED

5/16" Scalloped Silver Back Foil 1.5 Mil  
 Butterscotch Opalescent / Dark Amber Opalescent  
 Red and White Wispy Glass  
 Clear Float Glass  
 3/4" Red Glass Tile - 1 lb  
 White Sanded Grout - 2 lb  
 7/8" Crafting Tiles  
 Silicone Adhesive - 2.8 oz  
 Black Marker  
 Wheeled Mosaic Nippers  
 Assorted Glass Embellishments

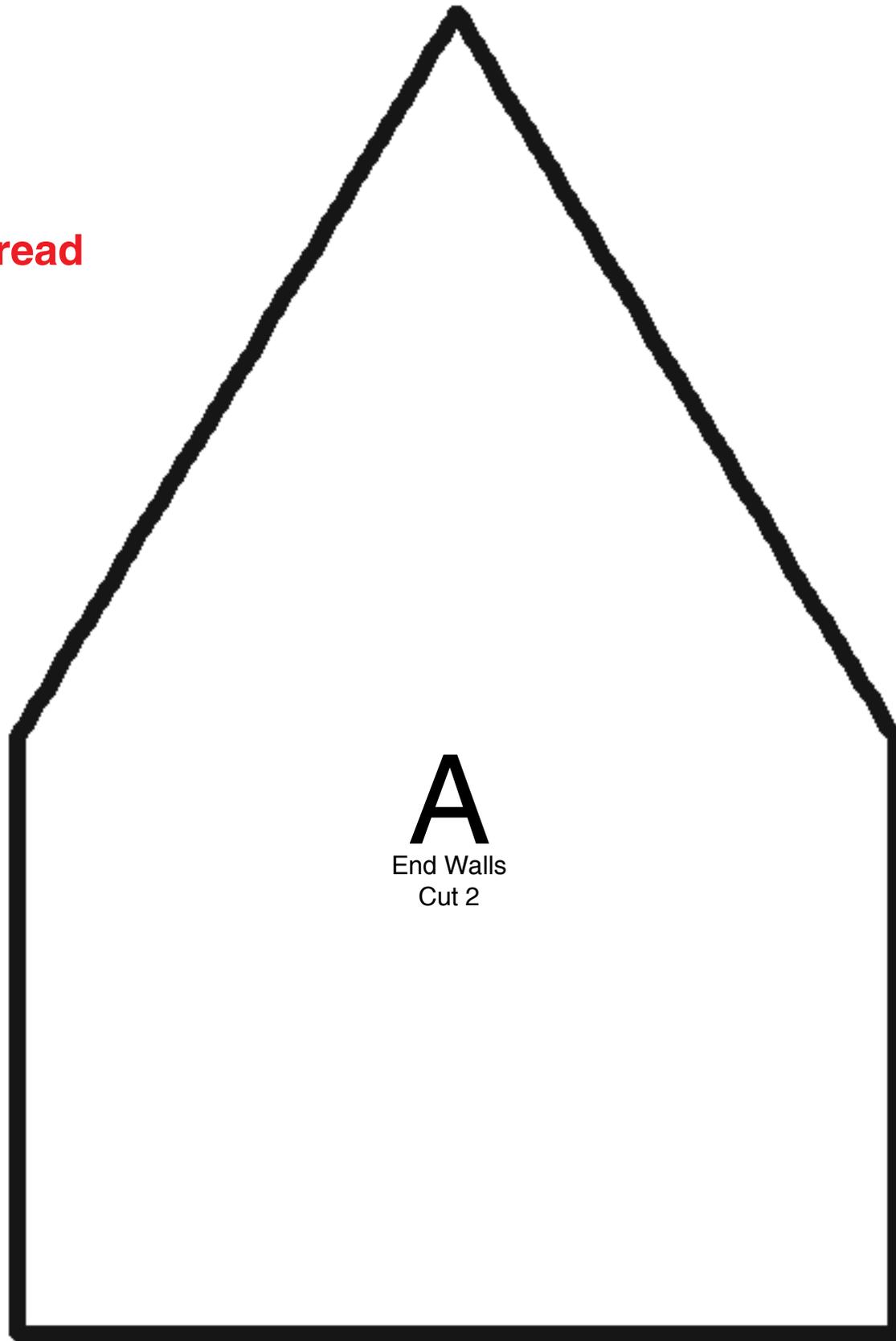
### DIRECTIONS

1. Resize and print patterns on pages 6, 7 and 8. Cut out pattern pieces. On butterscotch glass trace patterns (except for chimney) and cut using glass cutter.
2. Foil each piece using scalloped foil.
3. Assemble house with scalloped edge of foil facing exterior.
4. To assemble chimney, trace pattern onto clear glass and cut.
5. Cut 1/2" strips of Red and White Wispy glass. Using Wheeled Mosaic Nippers, nip strips into smaller rectangles to resemble bricks.
6. Apply small rectangles to one side of the clear chimney blank in a brick pattern using silicone adhesive.
7. Apply rectangles to the other side from the top of the chimney to the roof line.
8. Grout the mosaic chimney and let dry.
9. Mount chimney to the side of house with silicone adhesive.
10. Using Crafting Tiles make foundation for the house stacking tiles in a brick formation using silicone adhesive.
11. Leave an opening for a light cord if desired.





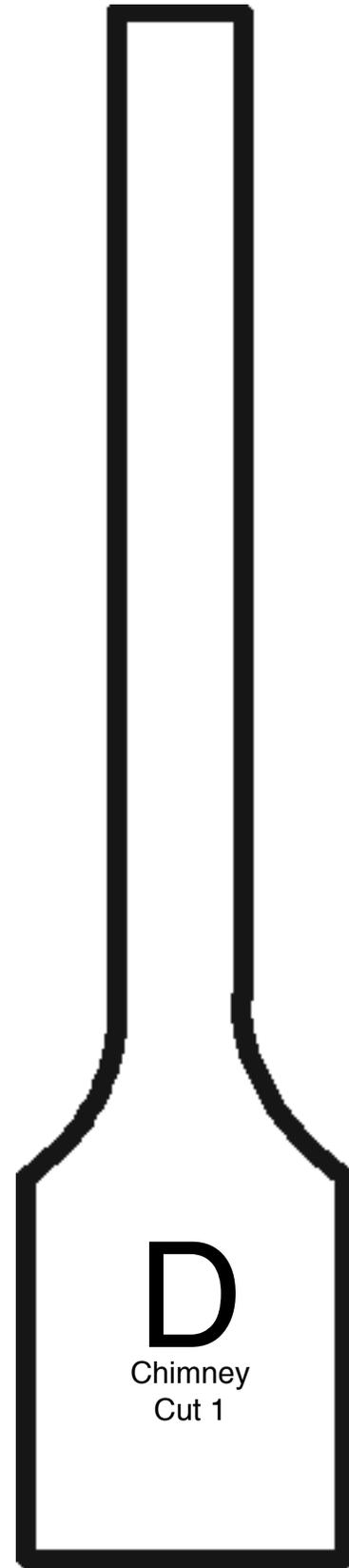
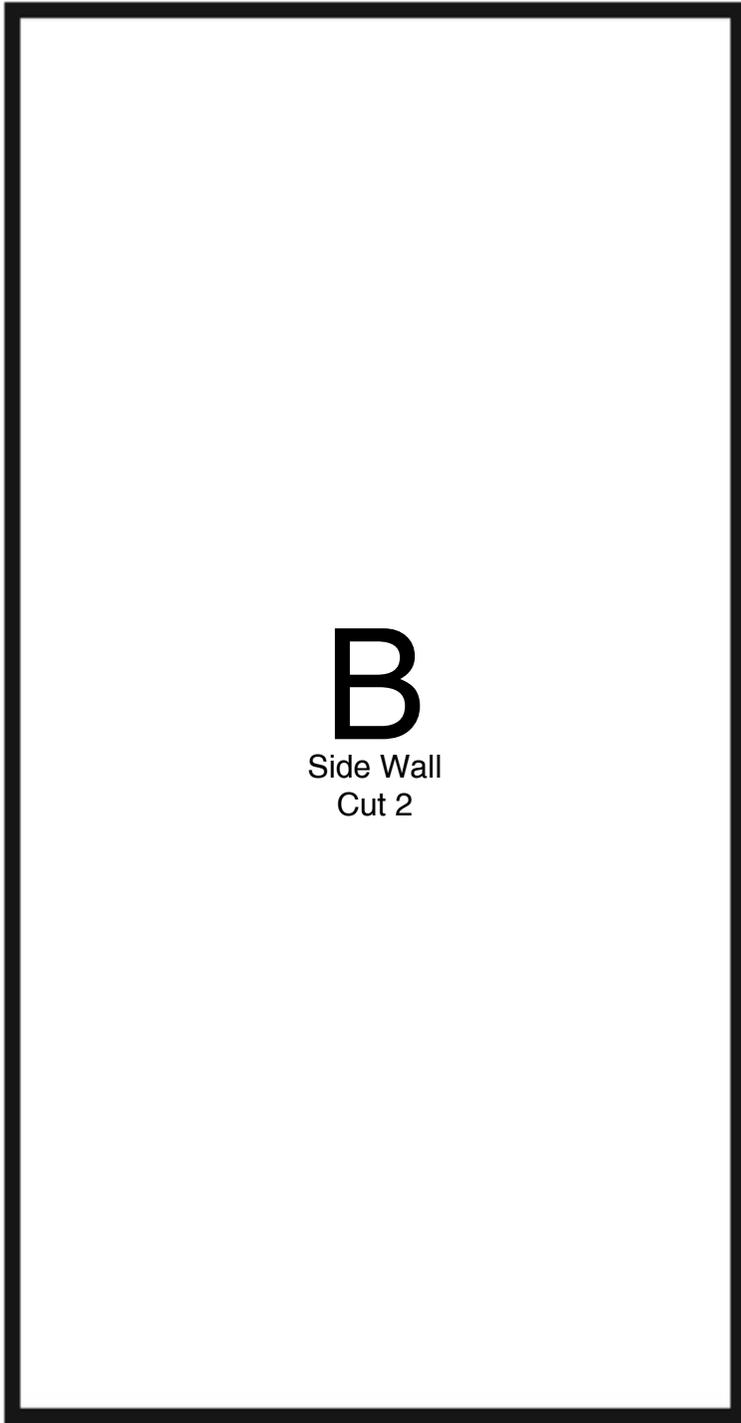
## Glass Gingerbread House





**DELPHI**  
Be Creative!

## Glass Gingerbread House





# Glass Gingerbread House

C  
Roof  
Cut 2



Add a magical winter landscape to your gingerbread house!

## Setting the Scene

### MATERIALS NEEDED

Clear, White Streaky Glass  
Opaque White Glass  
Silver On Clear Ripple Dichroic  
White Opal Frit-Medium

Clear Iridized Frit-Coarse  
1" Thick Fiber Durablanket  
Hotline Fiber Mold Hardener  
Weldbond Adhesive

### DIRECTIONS

#### Creating the Base

1. Cut desired shape for the base from opaque white. From clear white streaky cut the same shape.
2. Stack white streaky on top of opaque white.
3. With wheeled mosaic nippers or glass cutter, cut random pieces of Dichroic glass and arrange to form a pond.
4. Place the entire base in a prepared kiln.
5. Repeat step one cutting shapes to resemble snowdrifts. Set in a prepared kiln.
6. Fire using schedule below.

#### Shaping Snowdrifts:

1. Using glass snowdrift shapes as a template, cut out Durablanket.
2. Form into mounds using Hotline Fiber Mold Hardener and prepare for firing according to manufacturer's directions.
3. Set snowdrift shapes on prepared molds and drape using schedule below.
4. When cool apply Weldbond adhesive with a brush and sprinkle with white and clear iridized frit. Let dry.

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



Invite family and friends to the holiday table with smiling gingerbread place card holders.

## Gingerbread Place Card Holder

*Original design by Artist Julie Haan*

### MATERIALS NEEDED

Gingerbread Pre-Cut  
Fine Water Clear Frit  
Scrap of white and clear fusible glass  
Glastac Firing Glue  
Glastac Firing Glue  
1/8" Fiber Paper  
Pebeo Gold Paint Outliner  
Self-Adhesive Clear Rubber Feet

*Note: Pre-Cuts are available at [DelphiGlass.com](http://DelphiGlass.com)*

### DIRECTIONS

1. Cut a 2-1/2" half circle of clear fusible glass to use as the stand and a 1" x 2-1/2" rectangle of white for the name tag. Set aside.
2. Outline cleaned pre-cut with Glastac Firing Glue. Cover with clear frit (the adhesive will keep frit from falling off the sides). Place in kiln on top of prepared shelf. Place the straight edge of the half circle on top of pre-cut so it is just covering the bottom of the feet. Place white glass on shelf, not touching gingerbread.
3. Allow adhesive to dry before firing. Full fuse.
4. To bend the clear glass backward, elevate a small kiln shelf by placing a 2" kiln post (laid on its side) under one end. To prevent the glass from sticking to the underside, cut a piece of 1/8" Fiber Paper larger than the pre-cut. Crease fiber paper so part is bent over the shelf. Place gingerbread (head side down) so the clear stand is dangling off the edge.
5. Slump.
6. Decorate gingerbread and name tag with gold outliner. Cure paint in an oven following manufacturer's directions.
7. Affix two self-adhesive clear feet to the underside of the base. Attach name tag to gingerbread using double sided foam tape, or a small amount of silicone adhesive. Use permanent marker to personalize.

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



*Slumping the gingerbread over an elevated kiln shelf is the key to this unique design.*

Light up the season with a joyful holiday project.

## Season's Greetings Candelabra

Project by artist Kayleigh McGrath

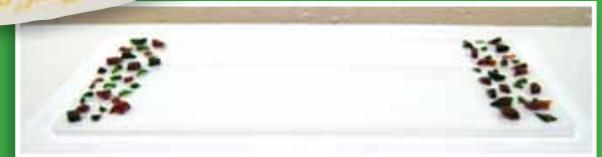
### MATERIALS NEEDED

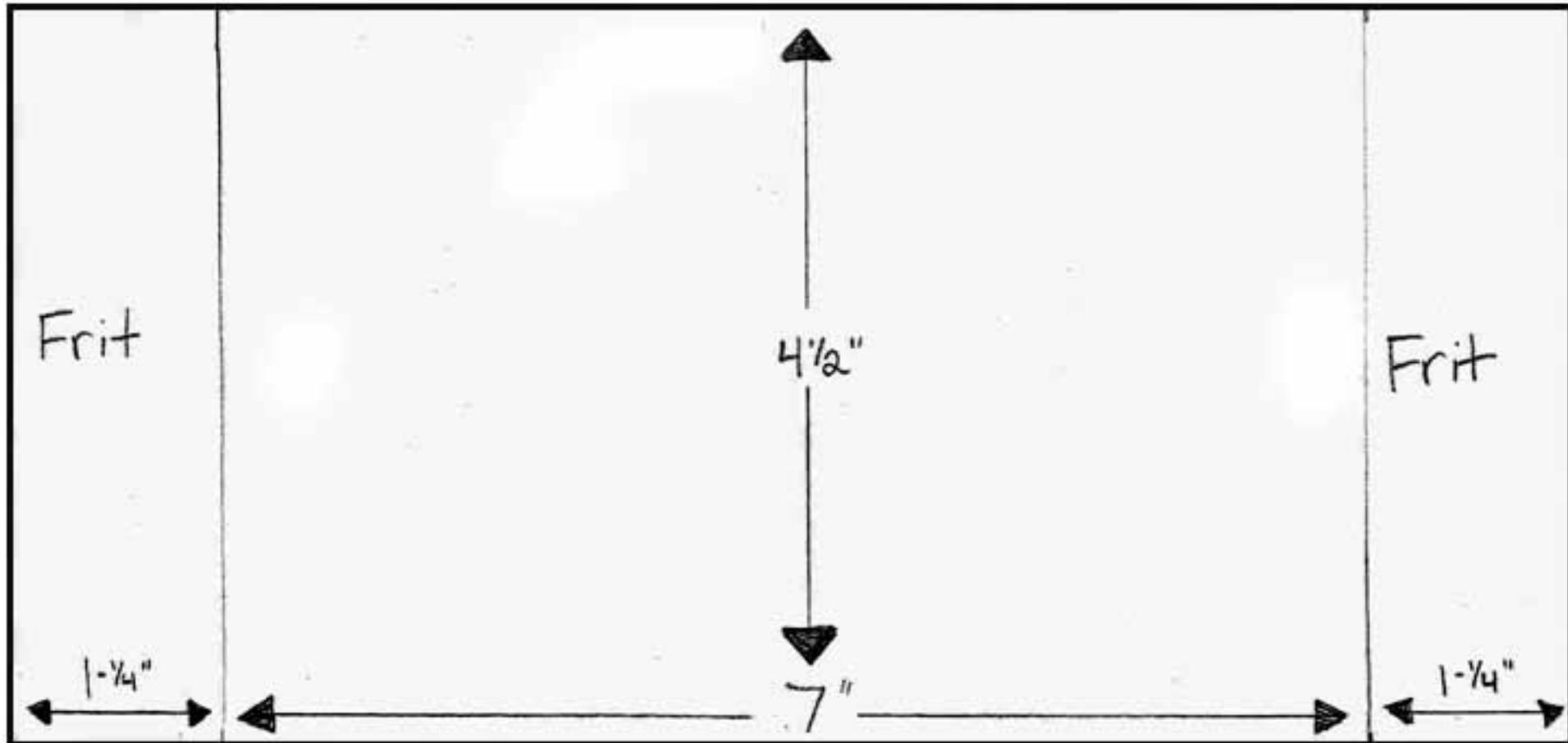
Small Double Curve Mold  
White Opal Glass  
Aventurine Green Coarse Frit  
Cherry Red Coarse Frit  
Creative Images Color Slide  
Candle Cups - 3 Pack  
E6000 Adhesive  
Basic Glass Cutting and Fusing Tools  
Oven

### DIRECTIONS

1. Cut 2 pieces of white opal glass measuring 9-1/2" x 4-1/2" each.
2. Stack both pieces of cut glass on prepared kiln shelf. Decorate the two ends with frit leaving center 7" wide area blank (this is the space you will add the color slide). See diagram on page 8.
3. Fire to a full fuse. Schedule on page 8.
4. Place on prepared small double curve mold and slump using schedule on page 8.
5. Print holiday words image (on page 9) on Creative Images Color Slide following manufacturer instructions.
6. Cut color slide sheet on the inside of the black line. Soak slide in hot water using slumped piece behind it for stability. Slowly remove backing and smooth out any air bubbles. Allow to dry, cure in oven following manufacturer instructions.
7. Secure candle cups with adhesive.

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*





### Firing Schedules\*

Full Fuse		
300° F / Hour	1100° F	Hold for 30 minutes
300° F / Hour	1450 ° F	Hold for 10 minutes
Full	960 ° F	Hold for 40 minutes
Slump		
300° F / Hour	1100 ° F	Hold for 10 minutes
300° F / Hour	1250 ° F	Hold for 15 minutes
Full	960° F	Hold for 40 minutes

\* Your kiln size, controller type, and individual project may require some alteration to the schedules above for best results. Firing times and temperatures may vary, each kiln is unique.

*Delphi Tip: Keep a firing log to make it easy to replicate your favorite projects.*

Merry  
Christmas

**OH CHRISTMAS TREE,**  
**OH CHRISTMAS TREE**

*Deck the halls with boughs of holly  
Fa la la la la, la la la la*

**Season's**

*Joy to the world,  
the Lord is come!*

**Greetings**

*I'm dreaming  
of a*

*We wish you a Merry Christmas*

*white Christmas*

*Dashing through  
the snow*

**Happy Holidays!**

*jingle bells jingle bells jingle all the way*





Make one-of-a-kind cast picture frames for your favorite memories.

## Cast Glass Picture Frame

*Project by artist: Julie Haan*

### **MATERIALS NEEDED**

#### **Materials for Cast Frame**

Picture Frame Mold

Easel backs

Silicone

Opaque White Glass

Medium White Opal Frit

Medium Clear Frit

#### **Materials for Fused Flower Embellishment**

Clear, Red Streaky Glass

Clear, Spring Green Streaky Glass

Opaque Canary Yellow Glass

Peppermint Flower Millefiori

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



## Cast Glass Picture Frame

### DIRECTIONS

#### Instructions for Cast Frame

1. Prepare mold with MR-97 Boron Mold Release according to manufacturer directions. Allow to dry.
2. Cut white glass. You will need two pieces of 1" x 3-1/2" and two pieces of 1" x 7-1/2". Place the strips in the picture mold.  
This will be the back of the picture frame.
3. Cover white glass with white frit to fill in any gaps in the base.
4. Once completed, cap entire piece with clear frit, filling the mold until level.
5. Fire following Full Fuse Schedule\* listed below.

#### Schedule:

Segment	Rate/°Hour	Temp/F	Hold/Minutes
1	300	1150	15
2	200	1275	15
3	300	1450	10
4	9999	900	600

#### Instructions for Fused Flower Embellishment

1. Cut five pieces of red glass in the desired shape for the petals. Cut five pieces of spring green glass that will be leaves.  
Finally cut one circle using the canary yellow glass for the center of the flower.
2. On a prepared kiln shelf fire following Tack Fuse Schedule\* listed below

#### Schedule:

Segment	Rate/°Hour	Temp/F	Hold/Minutes
1	300	1150	15
2	200	1275	15
3	300	1380	0
4	9999	900	600

*\*All kilns are not alike. Your kiln size, controller type, and individual project may require some alteration to the schedule for best results.*

*Delphi Tip: Keep a firing log to make it easy to replicate your favorite projects.*

#### Assembly:

1. Measure and cut Plexiglas or clear glass to fit the recessed opening on the back of the cast frame.
2. Silicone Plexiglas or picture frame glass into the recess in the back of the cast frame.
3. Silicone easel back to your finished frame.
4. Secure flower embellishments to front corner of frame with silicone adhesive.  
Let dry following manufacturer recommendations.

Decorate your tree, table or gifts with festive glass ornaments.

## Fused Glass Ornaments

*Project design by Artist Julie Haan*

### MATERIALS NEEDED

Precut Glass Shapes of Choice:

- Gingerbread Pre-Cut
- Christmas Tree Pre-Cut
- Evergreen Pre-Cut
- Gingerbread Pre-Cut
- Christmas Tree Pre-Cut

Glastac Adhesive

Embellishments:

- Frit
- Glassline Pens
- Dichroic Waves
- Stringers
- Dots

### DIRECTIONS

1. Clean Pre-Cut Glass Shapes.
2. Use Glastac adhesive to attach desired embellishments.
3. Place Pre-Cut shapes on a prepared kiln shelf or shelf paper.
4. Fire to a medium or tack fuse.
5. Place fired ornaments on top of a piece of scrap glass in a shallow dish and fill with cool water until just level with the ornament surface.
6. Using a rotary tool or a household drill and a diamond drill bit, drill a hole at the top of each ornament, allowing water to cool and flush the bit as you drill.
7. Clean ornaments, string a ribbon through the hole and hang.

### Additional Design Ideas:

- Make unique ornaments using other pre-cut designs or cut your own design.
- Use Glassline pens or photo-fusing paper to add a monogram or personal message to your ornament.
- Join pre-cut shapes together to make a unique holiday wreath.
- Add decorate pre-cuts to platters or other larger projects.

*Delphi Tip: If using Glassline pens to decorate use two precuts stacked and use a full-fuse schedule.*

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



## Flurry, A Glass Bead Project

*"Flurry" Glass Bead by Val Oswalt*

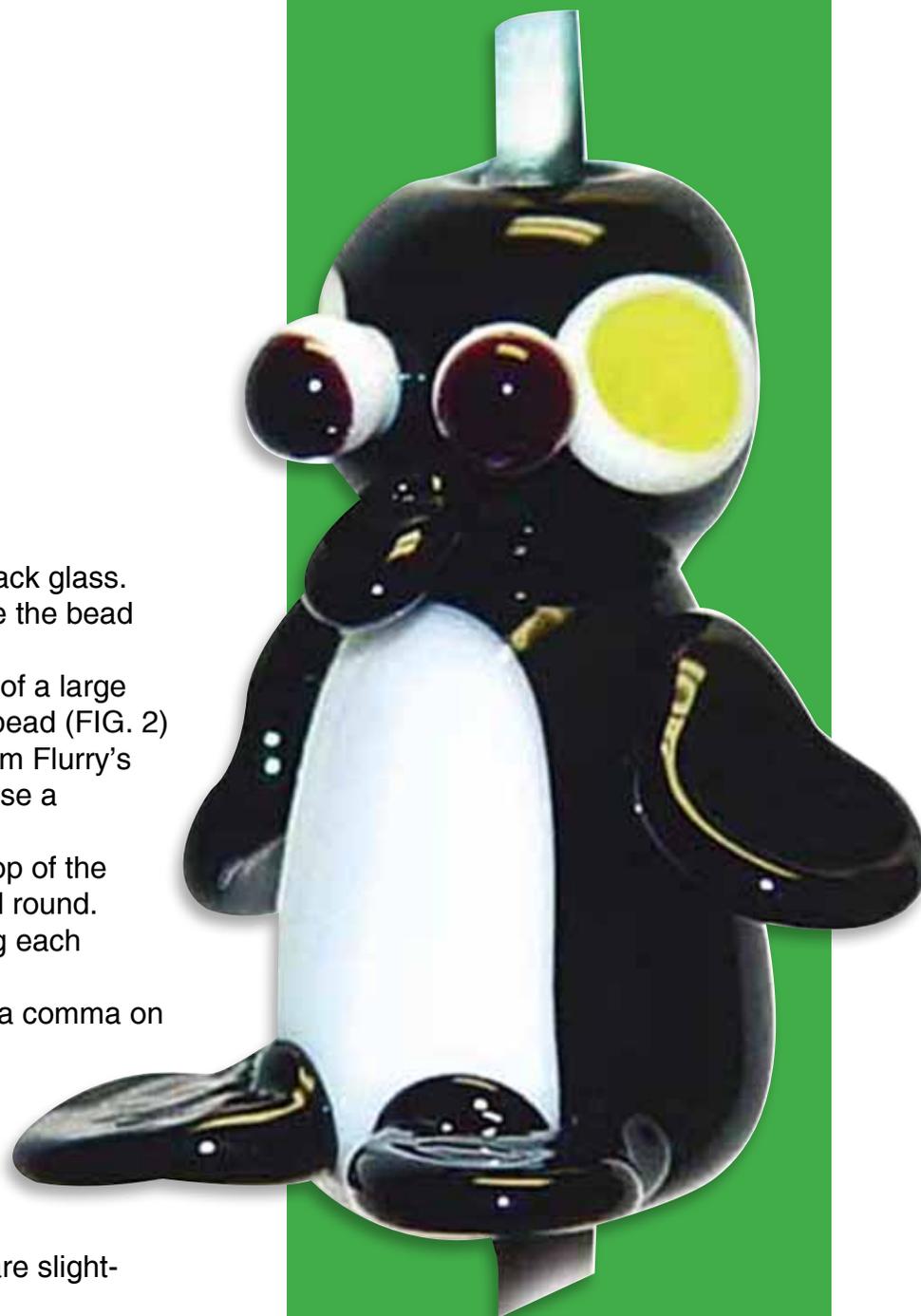
### MATERIALS NEEDED

Moretti glass rods: black, white and yellow  
One each black, white and yellow stringers  
Fireworks Beginner Beadmaking Kit  
Protective eyewear  
Mandrels coated in bead release

### DIRECTIONS

1. To form a base bead, heat a mandrel and apply 1" of black glass. Heat thoroughly and use the flat marvering tool to shape the bead into a barrel about 1/2 to 3/4" inches long. (FIG. 1)
2. Heat white glass rod until it forms a molten ball the size of a large pea. Touch the white rod to the top portion of the base bead (FIG. 2) and pull gently down the length of the bead. This will form Flurry's belly. Heat and melt the white belly area until smooth. Use a marver to keep the bead shape. (FIG. 3)
3. Heat 1/2" of black glass, until melted, add glass at the top of the base bead to form the head. Using a marver, shape and round. Note: make sure the entire bead is being kept hot during each step).
4. Use a white stringer and apply two dots in the shape of a comma on either side of Flurry's head. Next melt a yellow stringer and create a comma shape on top of the white and melt until smooth. This will be the cheek area. (FIG. 4 and 5)
5. Use a white stringer and apply two dots on Flurry's head. These will be the eyes. Using a black stringer, dot each eye. Heat the eyes until black and white dots are slightly blended, but still retain shape. (FIG. 6)
6. Melt a black stringer until it forms a small ball, apply to head area between the checks, this will be the beak. Using a tweezer pull the stringer ball away from the face.

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



## Flurry, A Glass Bead Project



7. Melt a black stringer until it forms a small ball, apply to the head between checks. Using a tweezer pull the stringer ball away from the face to form the beak. (FIG. 7)
8. Add four small balls of black glass to the arm and leg area. Place into the heat until soft. Flatten each ball with a tweezer to form flippers (Remember to always keep entire bead hot after each step but not too hot to lose the bead features). (FIG. 8)
9. Fire-anneal your bead by heating and allowing it to cool in the outer regions of the flame for a few seconds: repeat several times then carefully place the bead in the fiber blanket to cool. If available, anneal in a bead kiln. (FIG. 9)

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

Celebrate the Hanukkah holiday with this fused plate, capturing the iconic image of the children's Dreidel game.

## Fused Dreidel Plate

### MATERIALS NEEDED

Fusible glass

2 Precut Fusible 10" White Circles

Approximately .25 sf each of two tones of blue glass

Shelf Paper

10" Plate Mold

Basic glass cutting tools

### DIRECTIONS

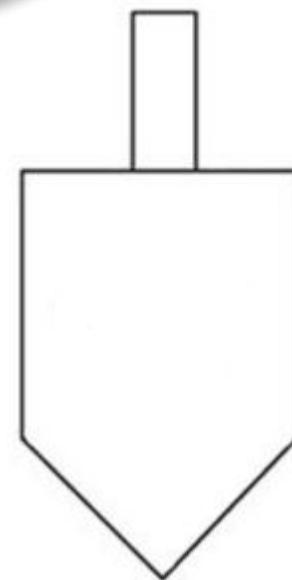
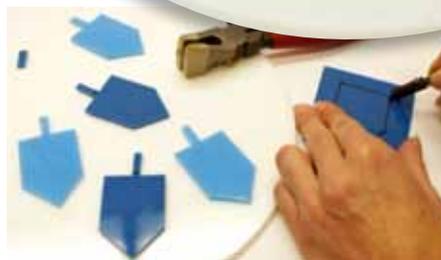
1. Trace dreidel body pattern onto glass, and cut out the pieces.
2. Cut a 1/4" strip of glass the same color as your dreidel. This will be cut into approximately 1/8" wide pieces to make the dreidel handles.
3. Clean all glass pieces.
4. Stack the two 10" circles on top of each other and position the dreidels with the handles on top.
5. Place composition on kiln shelf lined with shelf paper and fuse.  
*Note: This example was fused at a medium fuse. See glass manufacturer's recommended firing schedules or use firing schedule provided.*
6. Place fused circle on your desired plate mold prepared with kiln wash, and slump.
7. Remove from kiln and enjoy!

### Firing Schedule\*:

Ramp Temperature	Goal Temperature	Hold Time
300 degrees per hour	1000 degrees	5 minutes
300 degrees per hour	1250 degrees	30 minutes
300 degrees per hour	1375 degrees	10 minutes
FULL	950 degrees	30 minutes

*Note: \*All kilns are not alike. Your kiln size, controller type, and individual project may require some alteration to this schedule for best results.*

*Note: Use tested compatible glass in your fused art to avoid stress breaks.*



Nun

Gimel

Hay

Shin



Dress up your candles for Passover, Chanukah or any other special holiday, with a little bling – the results are stunning.

## Star of David Candle Bling

**SKILL LEVEL:** (Adult 1-5: 1 being the easiest, 5 being most difficult) 2

**TIME TO COMPLETE:** 2 hours

**PROJECT TIP:**

*If you experience difficulty keeping the blue dichroic embellishments in place, use a small bit of fusing glue; 1 drop of white school glue to 3 drops of water. Lightly apply glue to the back of the glass using a paint brush. Glue must dry completely before fusing.*

**MATERIALS NEEDED**

- Fuseworks™ Microwave Kiln
- Fuseworks™ Kiln Paper
- White Opalescent and Blue Dichroic Sheet Glass
- Glass Cutter
- Running Pliers
- Flathead Thumb Tacks
- Blue Pillar Candle
- E-6000® Adhesive
- Pattern
- Marker
- Optional - White School Glue and a Paint Brush

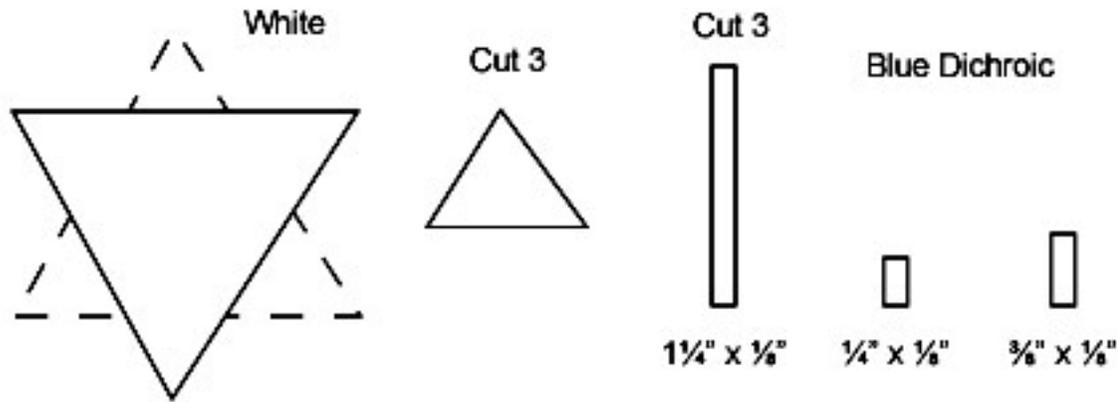
**DIRECTIONS**

**Get Ready**

1. Measure and mark pattern pieces on the following sheet glass:
  - White Opalescent Glass – Star
  - Blue Dichroic Glass - Outlines
2. Using a glass cutter, cut glass following the pattern at right.

*Learn to cut glass, watch a video at:*  
<http://www.diamondtechcrafts.com/default.aspx?page=itemView&itemsysid=186709>





3. Clean glass using paper towel moistened with water.  
Completely dry the surface of the glass with a lint free cloth.
4. 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.
5. Position the four pieces of white glass on the kiln paper so it forms a five-point star.
6. Add Blue Dichroic embellishments along the perimeter of the star;  
if necessary use the image for positioning.
7. Carefully set the base with glass inside the microwave and cover with kiln lid.  
Fuse in a 1200-watt microwave at 50% for 2 minutes; 80% at 1 minute; 30 seconds. If using a microwave with a lower wattage, increase the power level but, keep time consistent.  
*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.*
8. After time is up, open microwave and, using Hot Mitts #427846, carefully lift the lid enough to inspect the fusing process. Glass is fused when the edges of the glass are nicely rounded. Add additional time in 30-second increments until desired results are achieved.
9. Remove kiln from microwave using the Hot Mitts and place on a heat resistant surface. Cool the kiln for at least 30 minutes with the lid on.  
*CAUTION: Removing the lid or peeking under the lid during the cooling stage may result in your piece cracking. Glass remains hot for a long time and handled with great caution.*
10. Once cooled, glue two flathead thumb tacks vertically to the center back of the glass star. Allow to dry per the manufacturer's instructions. Push the Star of David glass project into the center of a blue pillar candle for a beautiful festive look to your holiday table or entryway.



Give the gift of Holiday spirit! Stained glass mosaics are fun for crafters of all ages, including kids.

## Merry Mosaic Present

### MATERIALS NEEDED

8" Square Stepping Stone Mold  
Glass Adhesive  
2 lb White Sanded Grout  
Light Green acrylic paint  
Wheeled Glass Nippers  
Studio Pro™ Pistol Grip Glass Cutter  
Studio Pro™ 1" Running Pliers  
Mixing spoon  
Outdoor Cement  
Soft cloth  
Marker  
Sponge  
Bowl  
Disposable glove  
Safety Glasses  
5 ox package White Stained Glass Chips  
Stained Glass Sheets: Green, Dark Green, Red, Brown  
Mosaic Shears or scissors

### DIRECTIONS

#### Get Ready

1. Cover work area with newspaper to protect work surface.
2. Collect all supplies needed for the project. Place them on your surface.

#### Pour Cement

1. Place 8 cups of Outdoor Cement into a mixing bowl and slowly add 16 oz of water, mix thoroughly. Wear a dust mask while measuring and mixing.
2. Pour cement slowly and evenly into mold; gently tap sides of mold to release air bubbles from cement.
3. Do not move mold while the cement is drying. Cement will warm as it hardens; wait approximately one hour (time may vary due to climate) for cement to harden.
4. Once cooled and set, remove the stone from the mold by turning mold over and lifting the edges.
5. Allow stone to completely dry/cure for 24 hours on newspaper before proceeding to the next steps.



## Merry Mosaic Present

### Cut Glass

1. Make two copies of the pattern. Cut one with pattern shears or cut along the inside edges of the pattern lines with regular scissors.
2. Lay out the cut pieces on your glass, trace around them using the marker.
3. Score glass using Pistol Grip Glass Cutters. When scoring glass, cut on the inside of the drawn line.
4. Using the Running Pliers, gently break glass.
5. Using the second copy of your pattern for reference, arrange cut glass pieces on your stepping stone.
6. Glue in place. Make sure to leave 1/16" - 1/8" space between the pieces.

### Nip Glass

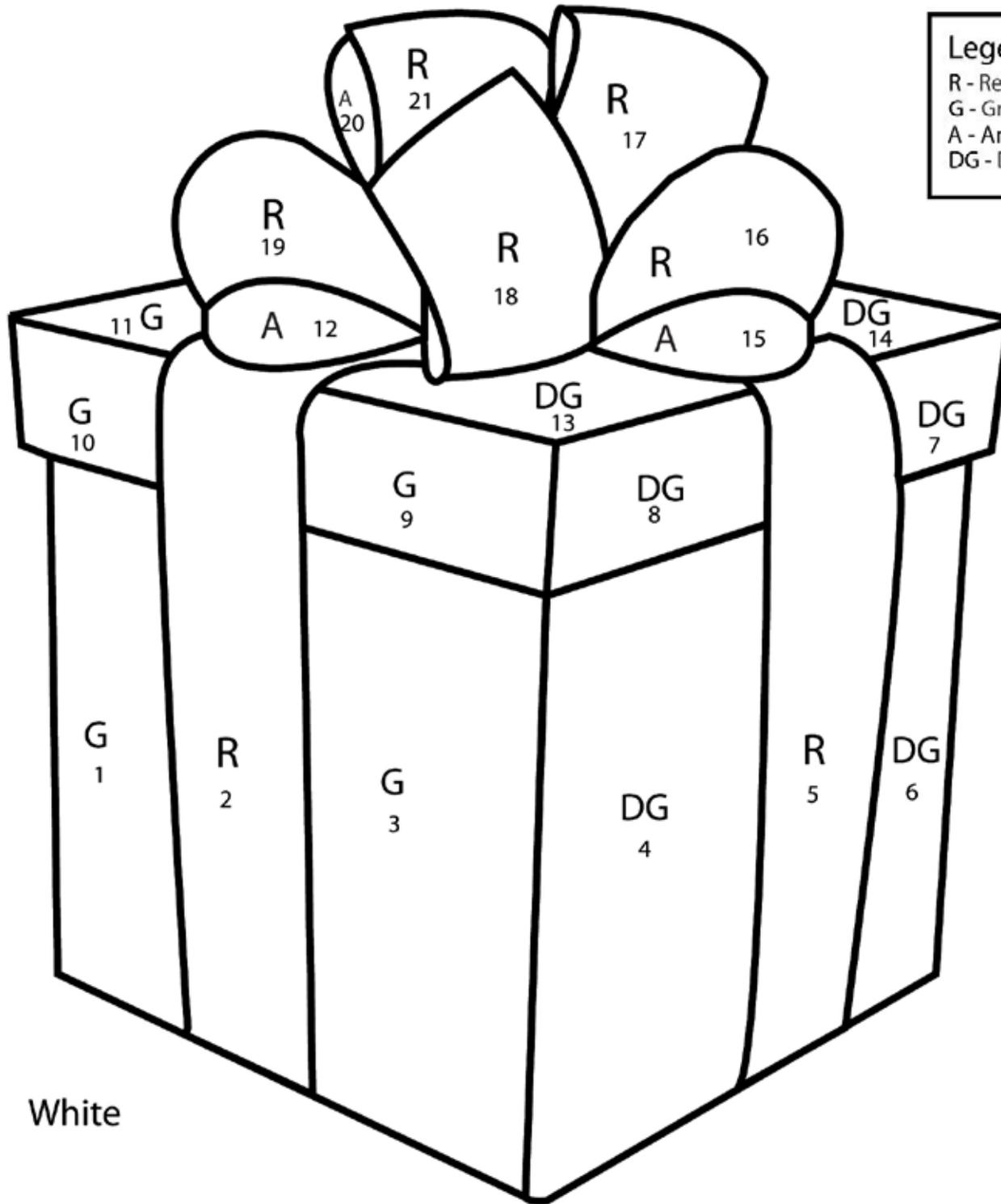
1. Hold the white glass square in you fingers, Take the Wheeled Nippers in the opposite hand, open the jaws and place the white glass square between the wheels. *Remember; unevenness and variations are part of the charm of mosaics, so don't try to be exact.*
2. Glue in place, making sure to leave 1/16" - 1/8" gap between the pieces and 1/8" from all outer edges of the stepping stone.

### Grout

1. Place 1 cup of Grout into a mixing bowl and slowly add water, 1 tablespoon at a time. Mix with craft stick or spoon until the grout reached "fudge-like" consistency. If it is too watery, add the reserved dry grout in small amounts until the consistency is correct.
2. Add green paint, small drops at a time until grout has a minty green hue.
3. Tape off side edges of stepping stone so that grout does not stain the stone.
4. Wearing a disposable glove, spread the grout into all the nooks and crannies between the glass. Wait about 15 minutes for grout to set.
5. Begin to gently wipe away the excess grout using a damp sponge, taking care not to pull grout out of glass spaces. Use your finger to smooth the grout around the outer edges of the stone. *It is important to remove grout from the glass surface before it is completely dry.*
6. Using the soft cloth, buff the glass to a clean shine. Allow to dry completely for 24 hours.



## Merry Mosaic Present pattern



### Legend

R - Red  
G - Green  
A - Amber  
DG - Dark Green

White

## Mosaic Holly Ornament

Project design by Artist Diana Duvall

**SKILL LEVEL:** (Adult 1-5: 1 being the easiest, 5 being most difficult) 4

**TIME TO COMPLETE:** 3 days

**PROJECT TIP:**

- Never dispose of grout directly down a drain.
- If grouting without latex gloves, pour vinegar over hands to restore skin PH.
- Round objects can be challenging to mosaic. To prevent a round object from rolling during gluing and grouting, set object in a cup or bowl depending on the size of the object. A small beanbag or bag of rice can also prevent it from rolling around on your work surface.

**MATERIALS NEEDED**

3 1/4" Glass or Plastic Ornament

Glass Adhesive

1/3 Cup Mosaic Sanded Grout White

3 Tablespoons Russet or Brown Acrylic Paint

Wheeled Glass Nippers

Mixing Spoon

Soft Cloth

Marker

Sponge

Bowl

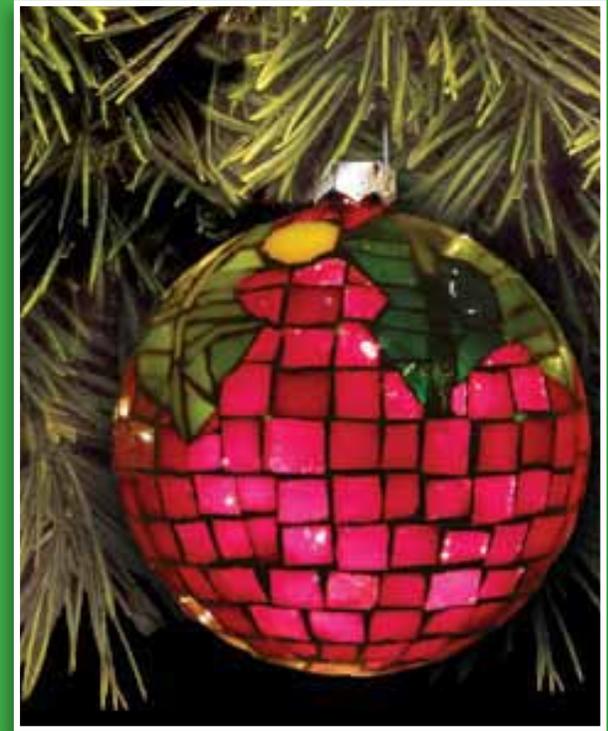
Disposable Glove

Safety glasses

5 ounce pkg. Stained Glass Chips - 1 of each: Red, Yellow, Green, Light Green

**DIRECTIONS**

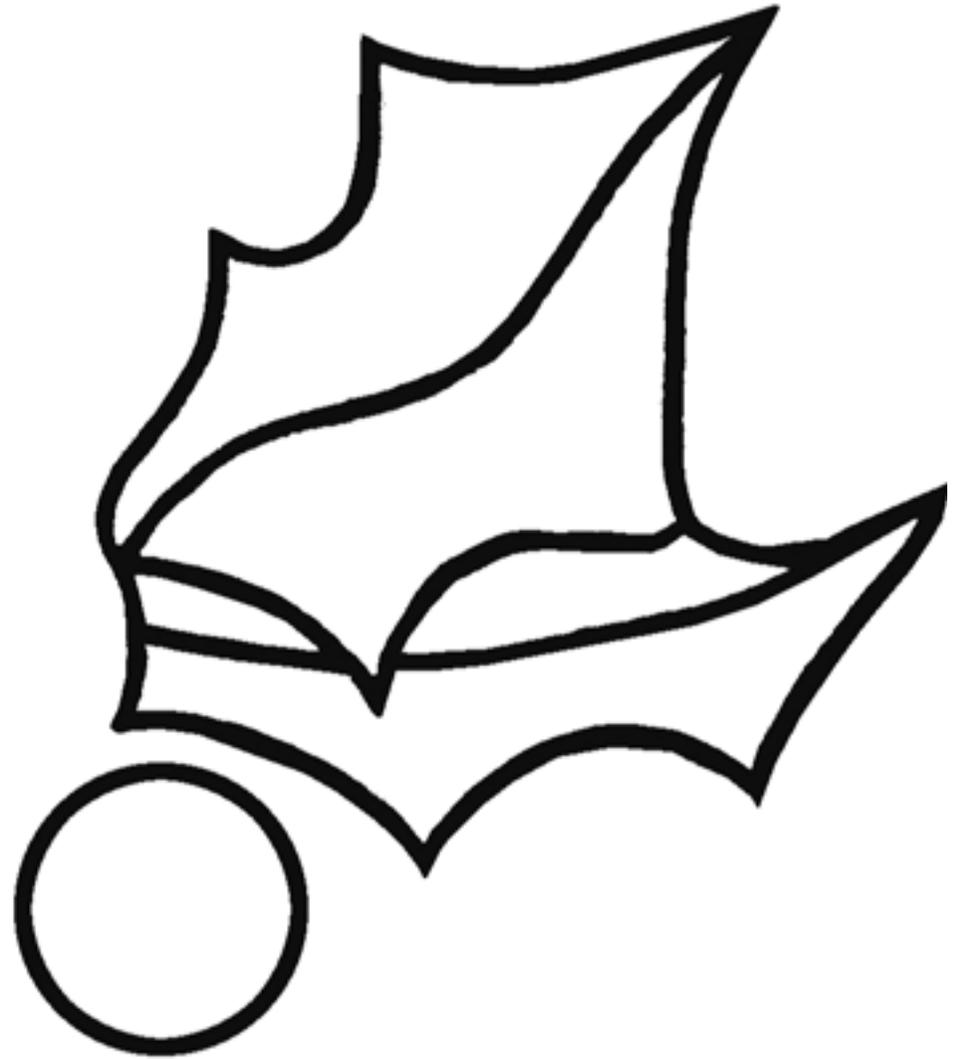
1. To protect work area, cover with newspaper.
2. Collect all supplies needed for the project and place them on your surface.
3. Make two copies of the holly leaf and berry pattern. If using a larger diameter ornament, enlarge pattern size so leaf tip extends down to the middle of the ornament. Cut around the outer edge of one of the patterns. Tape or hold the pattern to the top of the ornament. Trace around the outline of this pattern with a semi-permanent marker.
4. Repeat this pattern two more times, evenly spacing the design around the top edge of the ornament.
5. Place the second pattern on the work surface. This will act as your template for glass placement. Put safety glasses on, now you are ready to nip your glass.
6. To create the yellow holly berry, place the berry pattern on a single yellow stained glass square and trace around the outline of the pattern.





## Mosaic Holly Ornament

7. Hold the yellow glass square in your fingers. Take the wheeled glass nippers in the opposite hand, open the jaws and place the yellow glass square between the blades of nippers. Squeeze nippers closed to nip glass, nip away at the edge of the glass along the outline of the pattern. To remove any rough edges from the circle, use a fingernail file and buff. Place glass berry on the template.
8. The holly leaves are made of dark and light green glass squares nipped into various sizes and shapes. When nipping the glass for this area remember, unevenness and variations are a part of the charm of mosaics, so don't try to be exact.
9. Nip narrow rectangles to create the vertical leaf veins, glue into place. Fill in the leaf body with horizontal pieces. When arranging the glass on the pattern, leave at 1/16" - 1/8" space between the pieces.
10. Starting at the bottom of the ornament, mark the center of the ornament with a marker. The body of the ornament is made of 3/8" red glass squares. To create these small squares, nip a 3/4" glass square in half to creating two rectangles. Nip both rectangles in half again to form four 3/8" glass squares. Continue to quarter a supply of the glass squares for use in covering the ornament. Glue a single small red square to the bottom center of the ornament. Glue a circle of red squares around the center tile, nipping where needed to insure a proper fit. Continue to glue squares in horizontal circles around ornament until you reach the leaf area. Fill in around the leaves using small nipped pieces of the red glass to fit, glue into place. Allow glue to dry overnight before grouting.
11. Mix 1/3 cup of grout and 3 tablespoons of paint until a fudge-like consistency is achieved. If grout appears to dry, a small amount of water may be added to the mixture, 1 teaspoon at a time. With gloved hands, press grout between all gaps in glass over the entire surface. Let set for 10 minutes; remove excess grout with damp sponge, rinse sponge several times and wipe surface until it is free of grout.
12. When grout is thoroughly dry, use a soft cloth to polish the glass surface.





Display your favorite holiday photos in this stylish frame inspired by our favorite holiday candy.

## Candy Cane Stained Glass Picture Frame

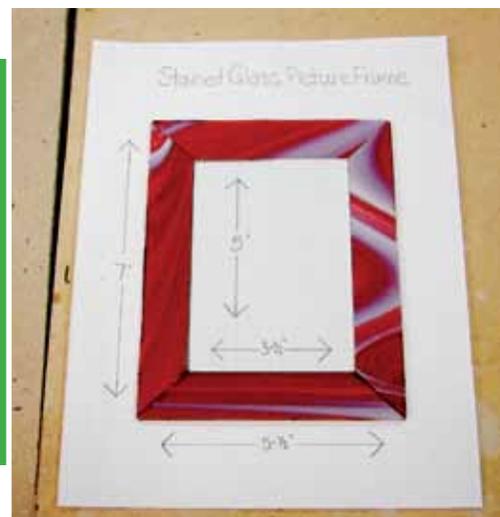
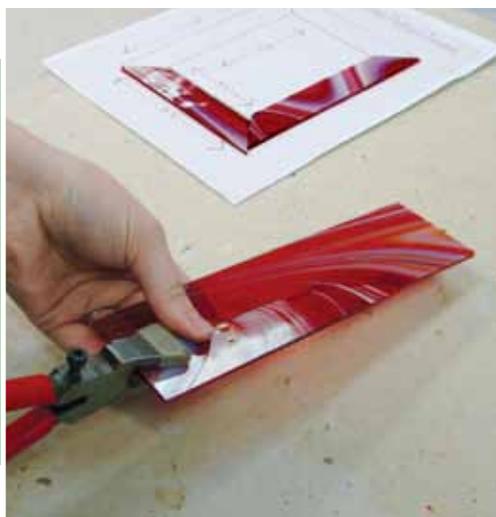
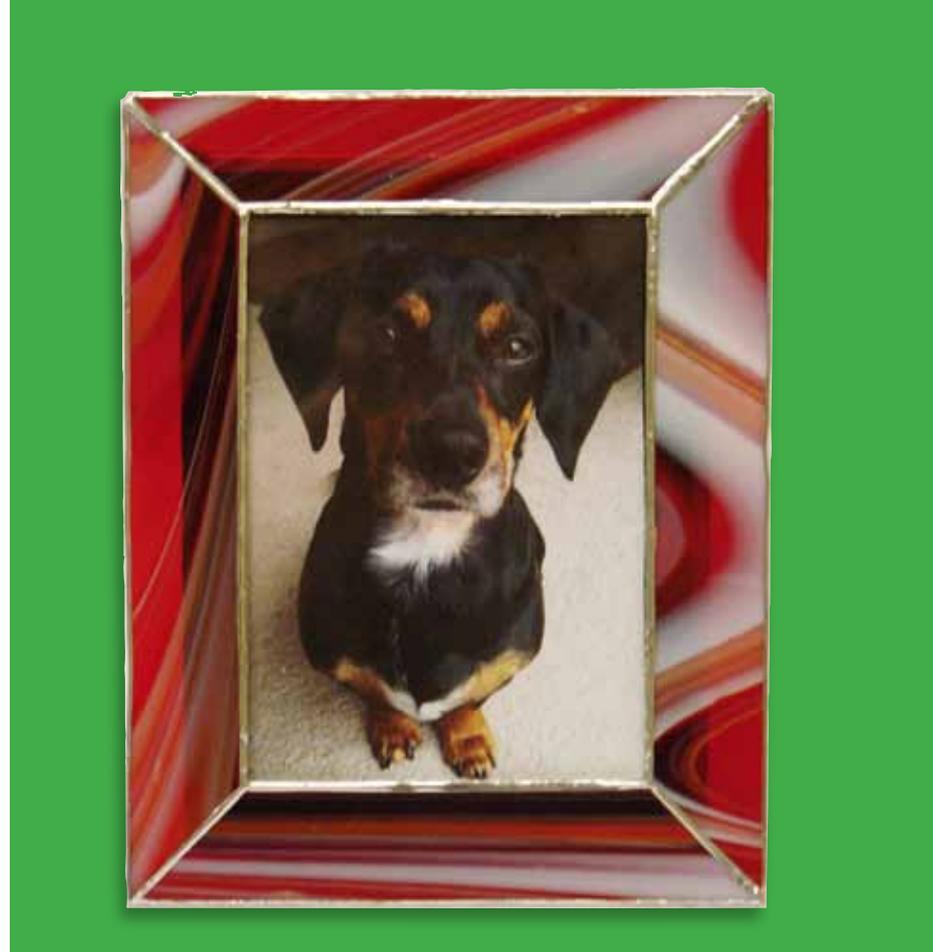
*Project by Artist Kayleigh Clark*

### MATERIALS NEEDED

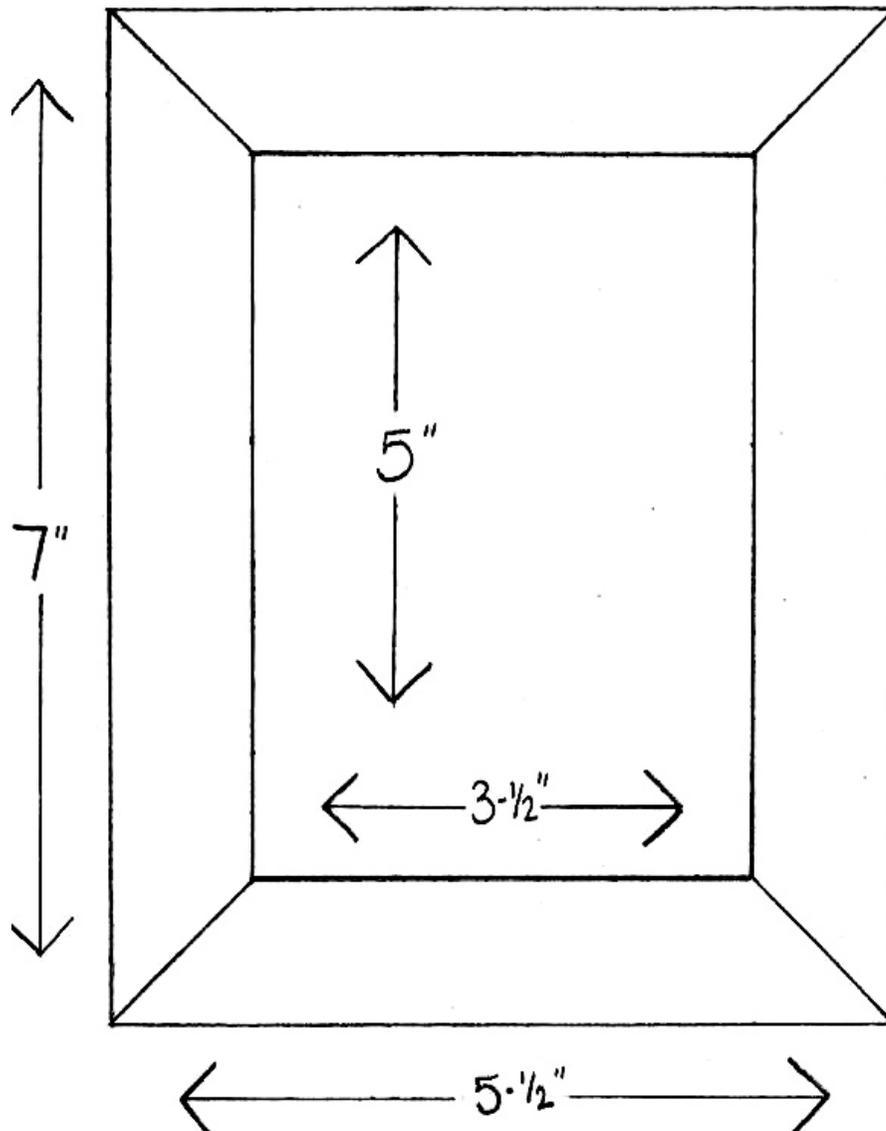
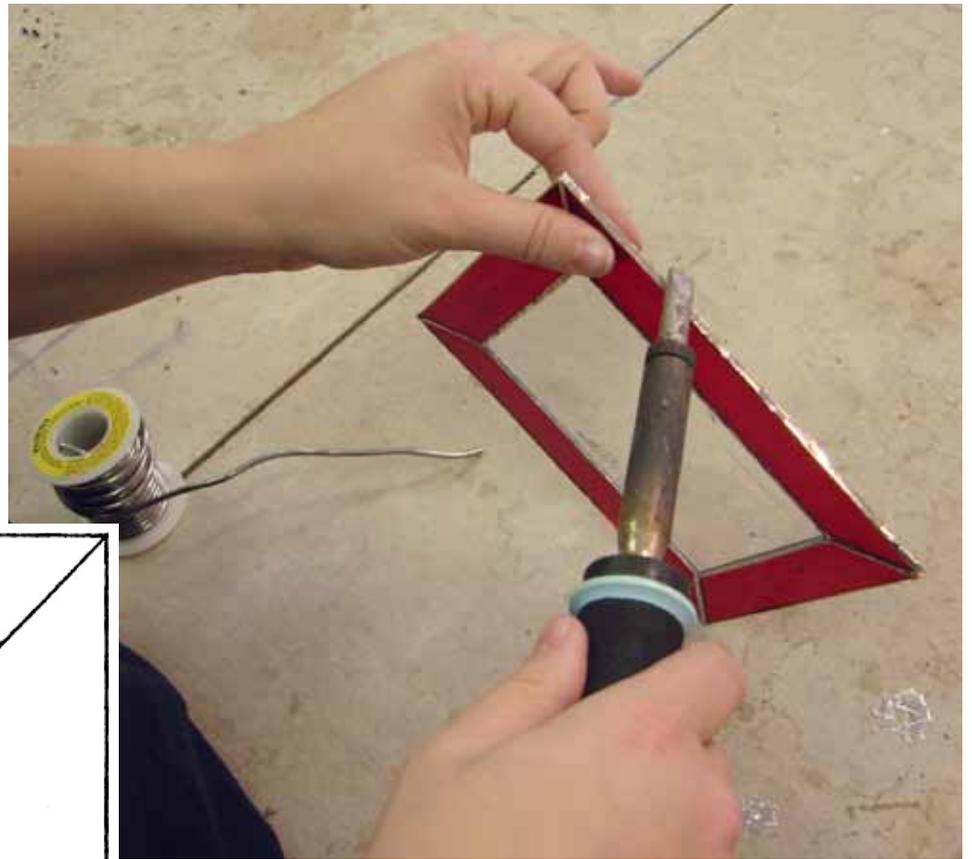
Opaque or semi-translucent glass of your choice  
Clear Single Strength Glass  
7/32" Copper Lined Foil  
60/40 Solder  
1/8" Flat U Zinc Came  
Picture Frame Easel Back  
Basic glass cutting, soldering tools and stained glass supplies

### DIRECTIONS

1. Using the pattern below cut pieces of Colored glass and Clear Glass following pattern measurements.
2. Wash and dry each piece, then arrange pieces on pattern for easy reference.
3. Foil and burnish each piece.
4. Using layout blocks and homosote board, position all pieces snugly together. Apply flux and begin soldering your seams.



5. After you have completed one side hold your piece on the edges near the center and carefully turn your project over. Solder pieces on the back of the piece.
6. Finish by tinning the edges of your project.  
*Delphi Tip: Using a panel vice to hold your panel will free up your hands and make*



*this step easier!*

7. Measure the 1/8" U Channel Came and mark at 4-1/2", then 6" from your first mark and again at 4-1/2" out from your previous mark.
8. Using a 90 Degree Notcher notch came to fit your picture frame. Use the final notch and gently wiggle it back and forth to remove the extra Flat U Channel.
9. Tack solder came to the back of your frame at each corner.
10. Use flux remover to wipe excess flux from your frame, wipe clean and polish.
11. Slide photo and easel back into the channel on the back of your frame and enjoy this year's holiday memories in style.



Light up the night with this sweet little gingerbread cottage night light. From roof to doorway it is sure to add sparkle to the holiday season.

## Stained Glass/Mosaic Gingerbread Cottage

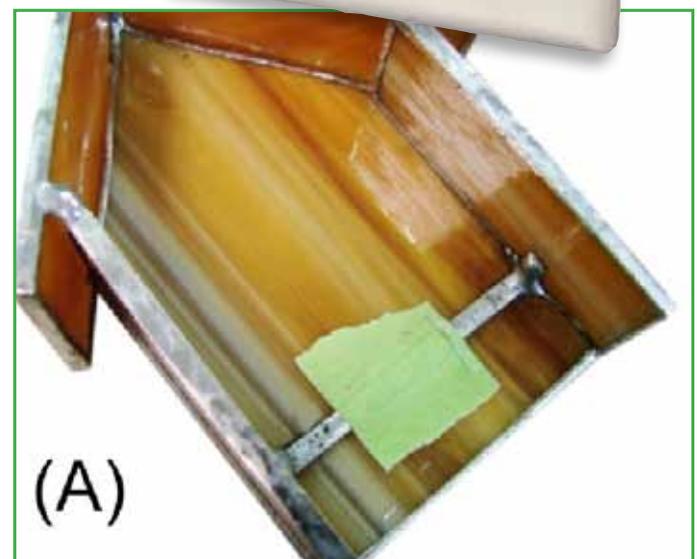
### MATERIALS NEEDED

Medium Amber & White Opal Glass  
Dark Amber/ White Wispy Glass  
Dark Green & White Opal Glass  
Medium Red Special Rod  
Mardi Gras Stringer Assortment  
Floral Millefiori Assortment  
Fun Millefiori Assortment  
3/4" Glass Iridized Glass Chips Mix  
Clear Transparent Frit - Medium  
E6000 Adhesive  
Weldbond Adhesive  
5/32" Copper Foil  
Copper Reinforcing Strip  
Light Sensor Night Light With 4w Bulb  
60/40 Solder  
Painters Tape

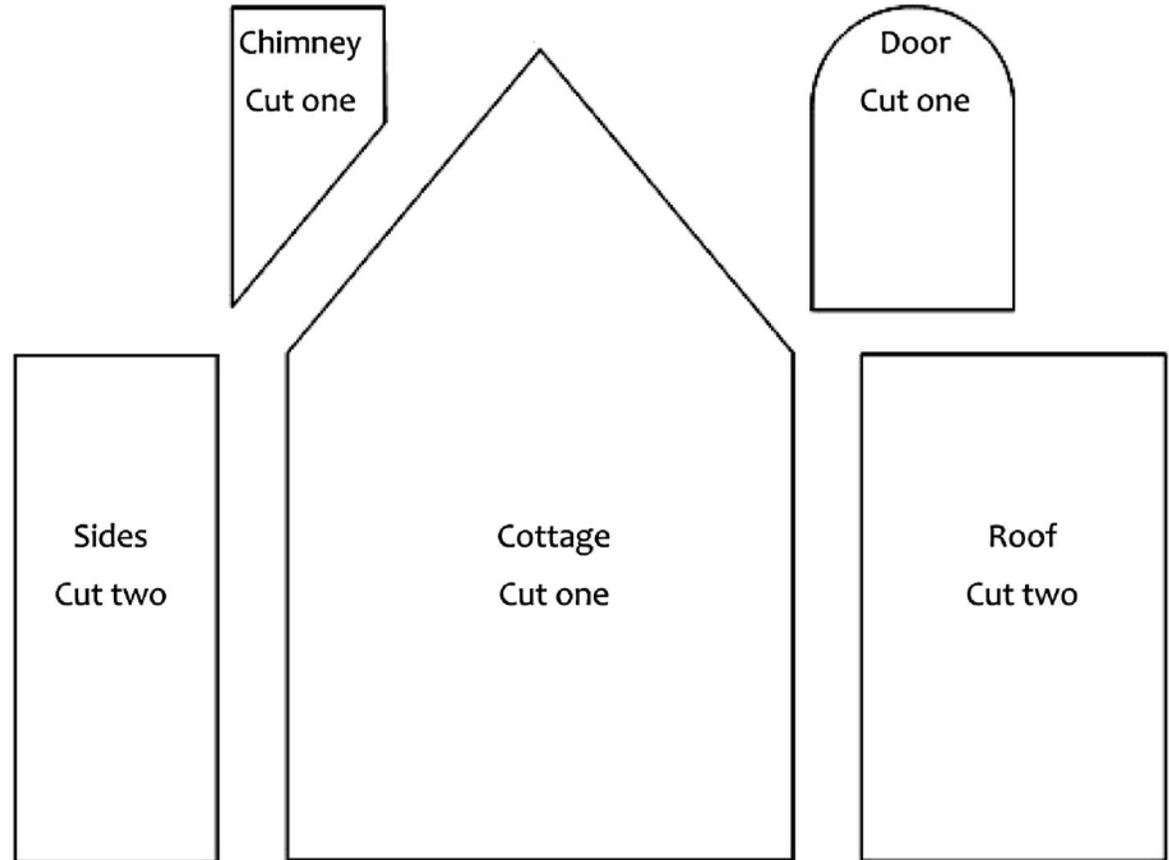
To make this project as shown use the products listed above or use glass and any embellishments you may already have.

### DIRECTIONS

1. Following pattern guide, cut out all cottage pieces.
2. Clean well. Foil and solder.  
*Delphi Tip: Add a small dot of E-6000 to top back of cottage door to add strength.*
3. Make decorative dots of solder along roof line, corners of cottage and chimney.
4. Cut two lengths of copper reinforcement strip 1/4" longer than house opening in the back. Bend ends to fit inside house. (A)



5. Tack solder copper strips together.
6. Set night light inside house and mark for placement of this copper strip. Hold in place with painters tape and solder.
7. Solder night light clip securely to copper strip.
8. With flux cleaner, clean off all residue. Polish with finishing compound.
9. Embellish with glass chips, millefiori, stringer and rod in any way you like!
10. Apply Weldbond or white glue to roof top. Sprinkle with clear frit. Add more glue on top of frit if you would like to mound it.
11. Add additional frit to tops of windows, door etc.
12. Let dry 12 hours or until adhesive is set.



## Gingerbread Cottage Pattern Guide

This quick and simple project is the purr-fect way to use up your scrap glass!

## Scrap Glass Cat Ornament

*Created by Artist Melanie Churchill*

### MATERIALS NEEDED

Any color scrap glass for head, body and ears

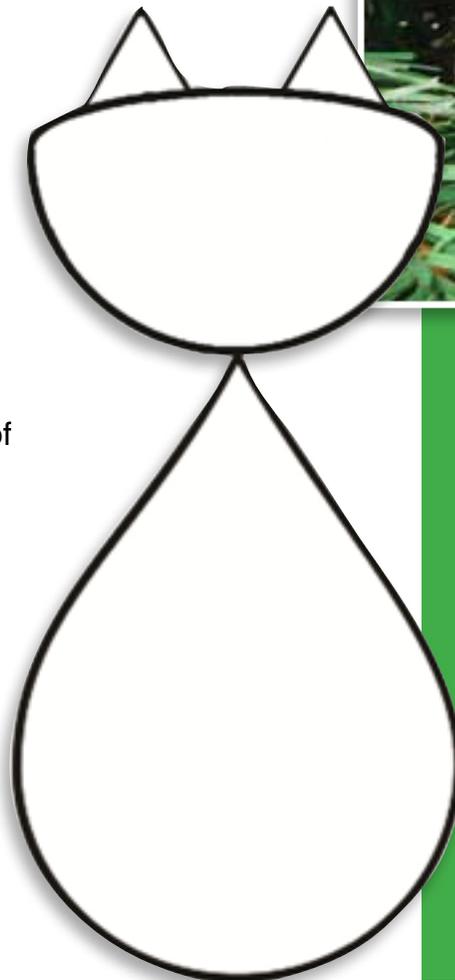
*Note: Charcoal Grey and White for head and body & White and Pink Streaky for the ears was used in the example.*

Pre-tinned copper wire - 20 ga

Basic Stained Glass Supplies and wire nippers you may already have.

### DIRECTIONS

1. Cut head, body and ears according to pattern.
2. Foil and burnish each piece.
3. Position head and ears on heat resistant surface.  
Cut a 2" piece of wire and make a loop in the center. Place in between top of head and ears. Hold in place with Layout Pins.
4. Apply a small amount of flux along the foiled edge and tack solder.
5. Cut another 2" piece of wire, create a loop in the center, and solder to the bottom of the face. Repeat Step #4.
6. Position body on heat resistant surface. Cut a 2" piece of wire, fold in half. Feed through loop on bottom of head. Position loop on the tip of the body, and run each half of wire on each side. Hold in place with Layout Pins. Repeat Step #4.
7. Cut a 3" length of wire and form into a tail. Solder on bottom of body.
8. Flip cat over, tin along back edge and side of foil as needed.
9. You can leave the face black or create an overlay for the nose.
10. Use flux remover, rinse and polish as usual.





*“Noel, Noel, by the light of that same star, three wise men came from country far...”*

The word comes from the French word Noel meaning “Christmas,” which derives from the Old French word noel, a variant of nael. The Latin origin is the word *natalis* (birth).

## The First “Noel”



**SKILL LEVEL:** (Adult 1-5: 1 being the easiest, 5 being most difficult) 4

**TIME TO COMPLETE:** 6 hours

**PROJECT TIP:**

*Carefully read product instructions and cautions before you begin.*

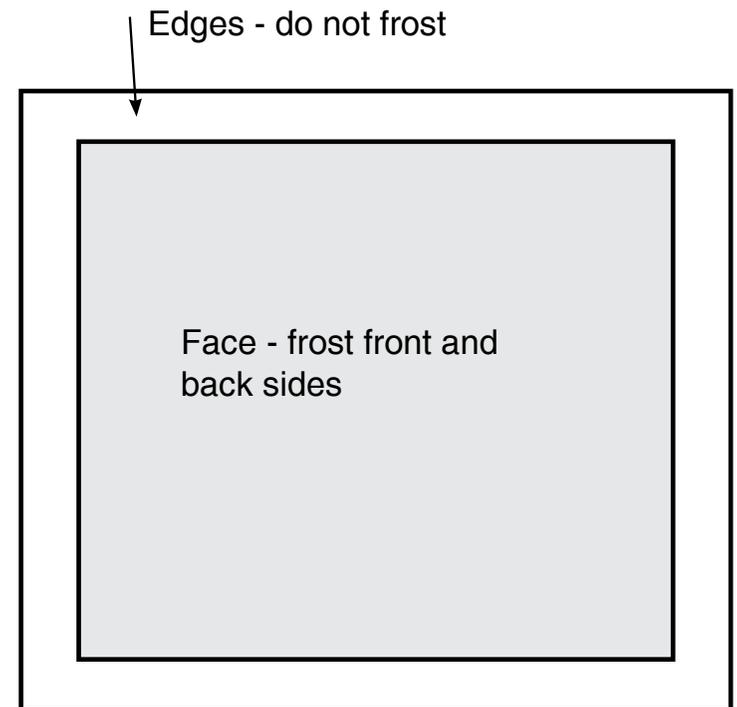
## The First “Noel”

### MATERIALS NEEDED

- 3 KraftyBlok™ Mini
- 1 KraftyBlok™ Rectangle
- Armour Etch®
- Gold Leaf Kit
- Mini Lights - 100 count, white lights with a white cord
- Hot glue gun & glue sticks
- Holiday ribbon 2-1/2" wide x 8' long
- Red glitter paint or red glitter and glue
- Artificial flora and/or bird
- Paint or foam brushes
- Scissors

### DIRECTIONS

1. Cover your work area with newspaper to protect work surface. Collect and place all supplies needed on your work surface.
2. Clean the KraftyBlok™ with glass cleaner or a 50/50 solution of vinegar and water. Dry completely.
3. Remove the stoppers and place the KraftyBlocs™ on newspaper with the openings facing down.
4. Work in a well ventilated area, wear safety glasses and rubber gloves to apply and remove glass etching cream to the front and back faces of the KraftyBlocs™. Follow all manufacturer’s instructions. Do not etch the other edges of the front and back faces (see illustration). This process may need to be repeated several times to achieve a consistent etch. Use glass cleaner or vinegar solution to remove etching cream residue. Dry the KraftyBlocs™ using a lint free cloth.
5. Choose your favorite font from a word processing program. Enlarge it to fit the face of the KraftyBlocs™. Print and cut out your letters and trace them onto the glass with a silver Sharpie®. Fill in the letters with glitter paint or glue sprinkled with glitter. Allow the letters to dry.
6. Following the manufacturer’s instructions, apply gold leaf to the front edges of the KraftyBlocs™ (see photo on page 28).
7. Fold the raw ends of the Holiday ribbon under 1/4" and tack in place with hot glue. This will create a finished end. Place the edge of the ribbon on one side of the block opening and tack in place with hot glue. Gently wrap the ribbon around the perimeter of the block using small dots of glue on the rib of the block to hold the ribbon in place. Cut a fold the other end of the ribbon under 1/4" and glue in place, leaving the opening free of the ribbon. Repeat on the remaining 3 blocks.
8. Divide the lights equally into 4 groups. Insert one group of light strands into each KraftyBlok™ opening.
9. Adorn the decorative KraftyBlocs™ with artificial flora and/or birds to complete this festive project.



## Let It Snow Lightbox

Created by Artist Grace Santoro

**SKILL LEVEL:** (Adult 1-5: 1 being the easiest, 5 being most difficult) 1

**TIME TO COMPLETE:** 30 minutes

**PROJECT TIP:**

For a Chanukah light box, use white lights, blue garland and a blue and white wired ribbon. Use glass paints and/or pens to write "Happy Chanukah" or to draw 9 colorful candles on the front of the KraftyBlok™.

**MATERIALS NEEDED**

- 4" x 8" KraftyBlok™
- 2 oz DecoArt Twinkles Writer
- Merry Minis 8 pc 1" Glitter Snowflakes
- "Celebrate It" Holiday ribbon
- String of white or clear Holiday lights (50 strand)
- 2 ft section of red garland
- Aleene's Tacky Glue
- Hot glue gun and glue sticks

**DIRECTIONS**

1. Remove the labels from the KraftyBlok™ and clean all surfaces of the glass. Dry thoroughly.
2. Place the KraftyBlok™ on a work surface with the 4" x 8" side facing up. Use a glitter paint writer to create a special Holiday message lengthwise on the face of the KraftyBlok™.
3. While the paint is drying, remove the hanging threads from the Merry Minis Glitter Snowflake ornaments. Use glue to adhere the snowflakes randomly to the front surface of the KraftyBlok™ making sure you do not cover the words.
4. Once the paint and glue have dried, remove the stopper from the KraftyBlok™ and insert a string of 50 tree lights into the cavity of the block.
5. Use scissors to cut a slit from the edge to the center hole of the stopper. Insert the light cord through the slit and slide the cord to the center hole.
6. For a festive look, insert a two foot piece of red garland into the KraftyBlok™ cavity so that it appears behind your special Holiday message.
7. Wrap a length of wired ribbon around the outside of the KraftyBlok™ and use a glue gun to tack it into place. Next, create a multi-looped bow and hot glue it to the top of the KraftyBlok™ to cover the ends of the ribbon.



## Tiny Angels Bevel Panel



### MATERIALS

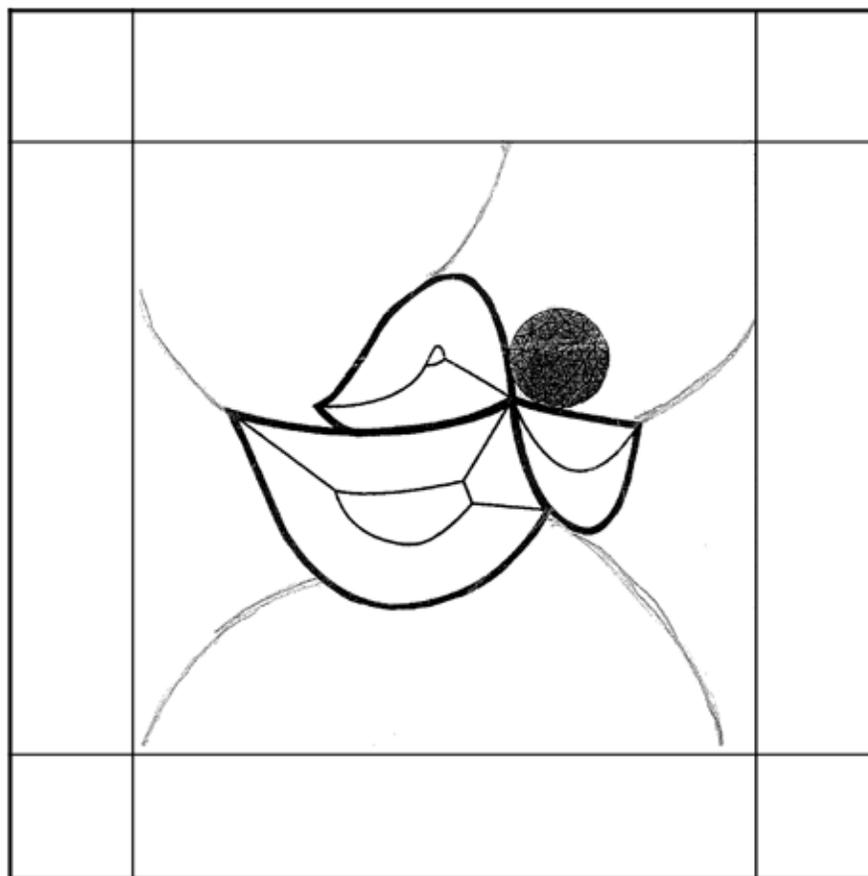
- Stained glass
- Tiny Angels Bevel Cluster
- Basic cutting and assembly supplies
- 3 - 20 mm Round Faceted Jewels to use as the angels' heads.

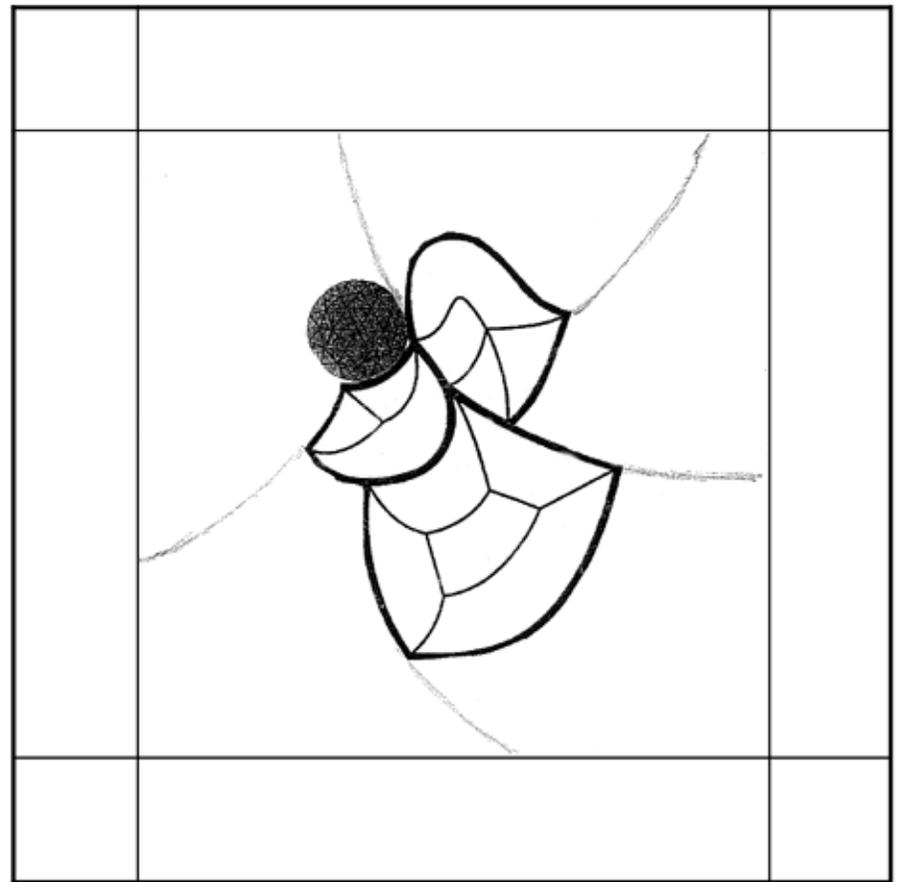
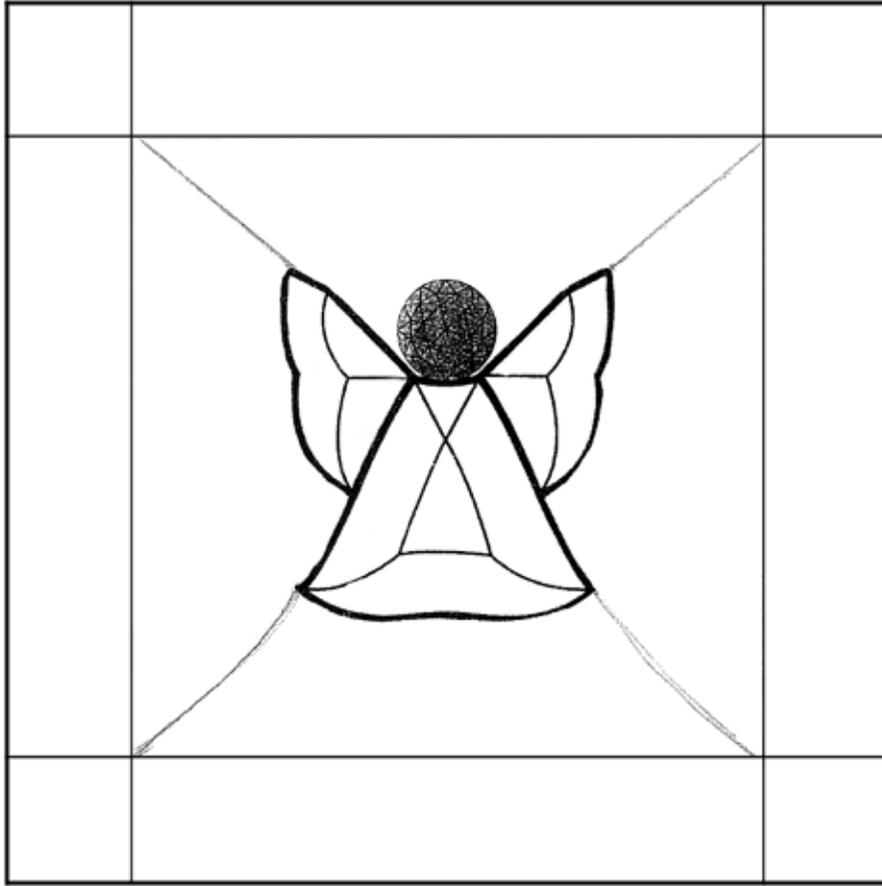
### DIRECTIONS

This 2 in 1 pattern can be used to create three small panels or one three-part panel using the Tiny Angels bevel cluster.

Use patterns individually to create 3 small panels.  
To create one panel remove the side borders from the center panel, and assemble as one.

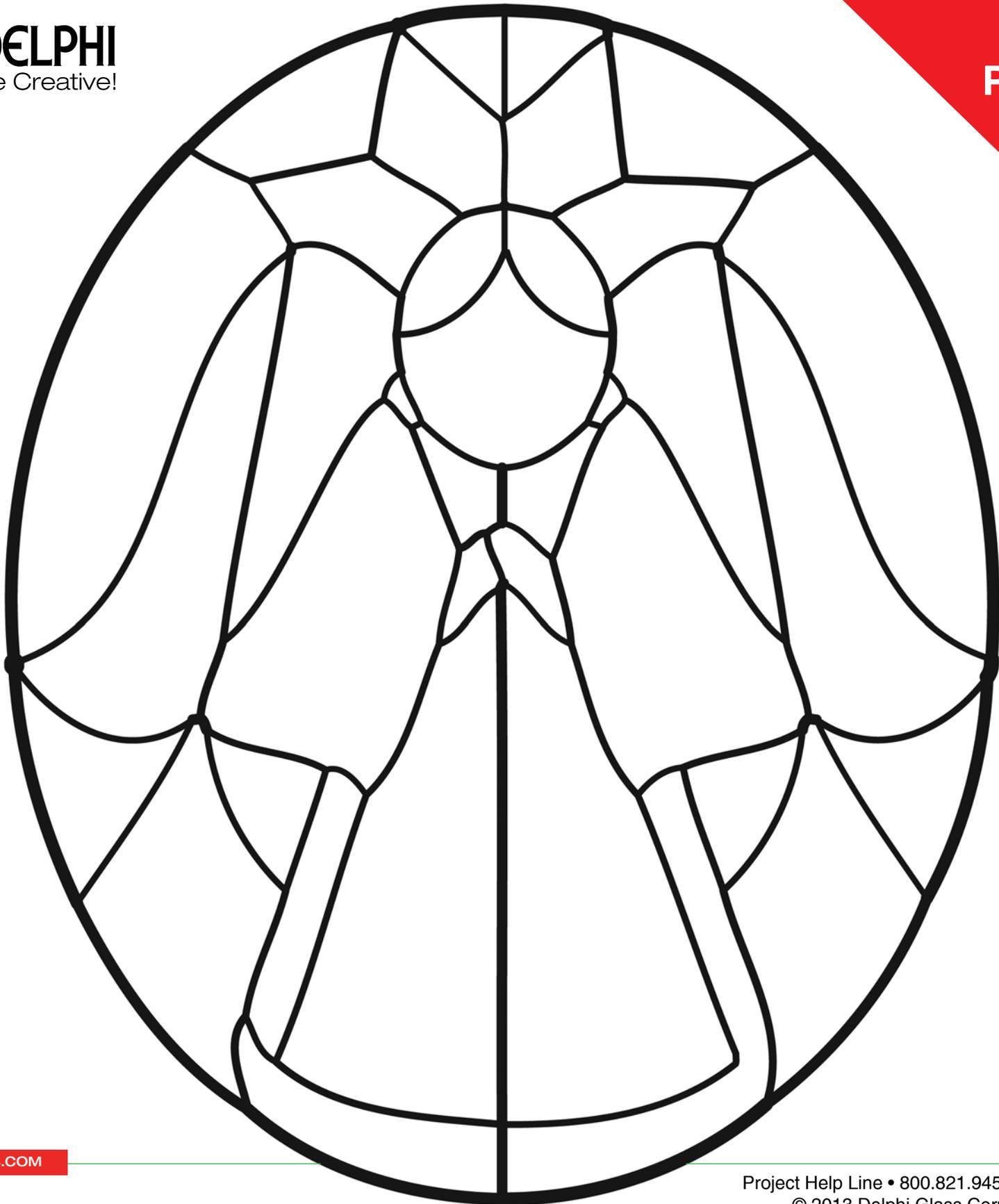
Assembled individually, each panel measures 7" x 7" square.





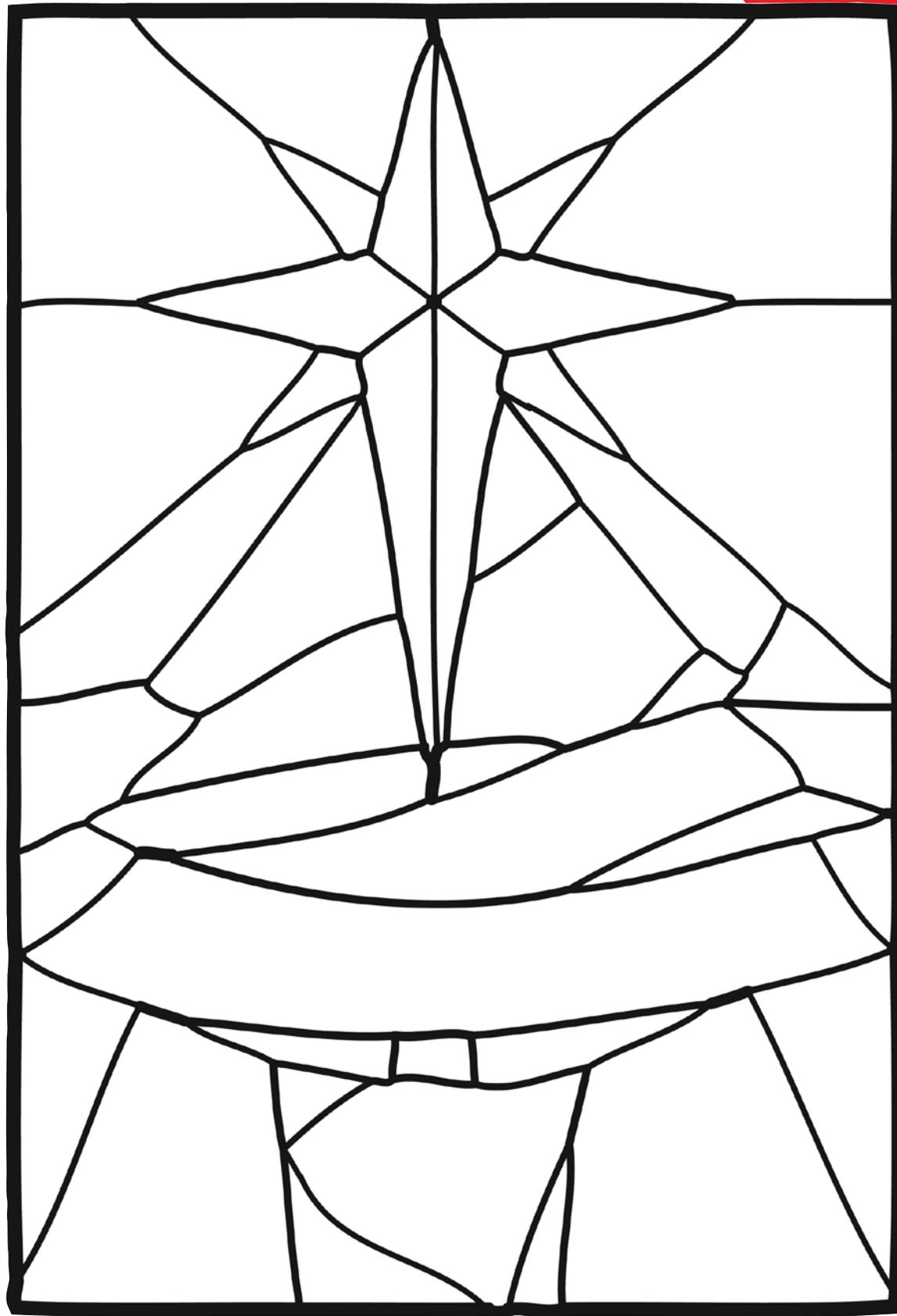


Angel





## Star of Bethlehem



Stained  
Glass  
Pattern

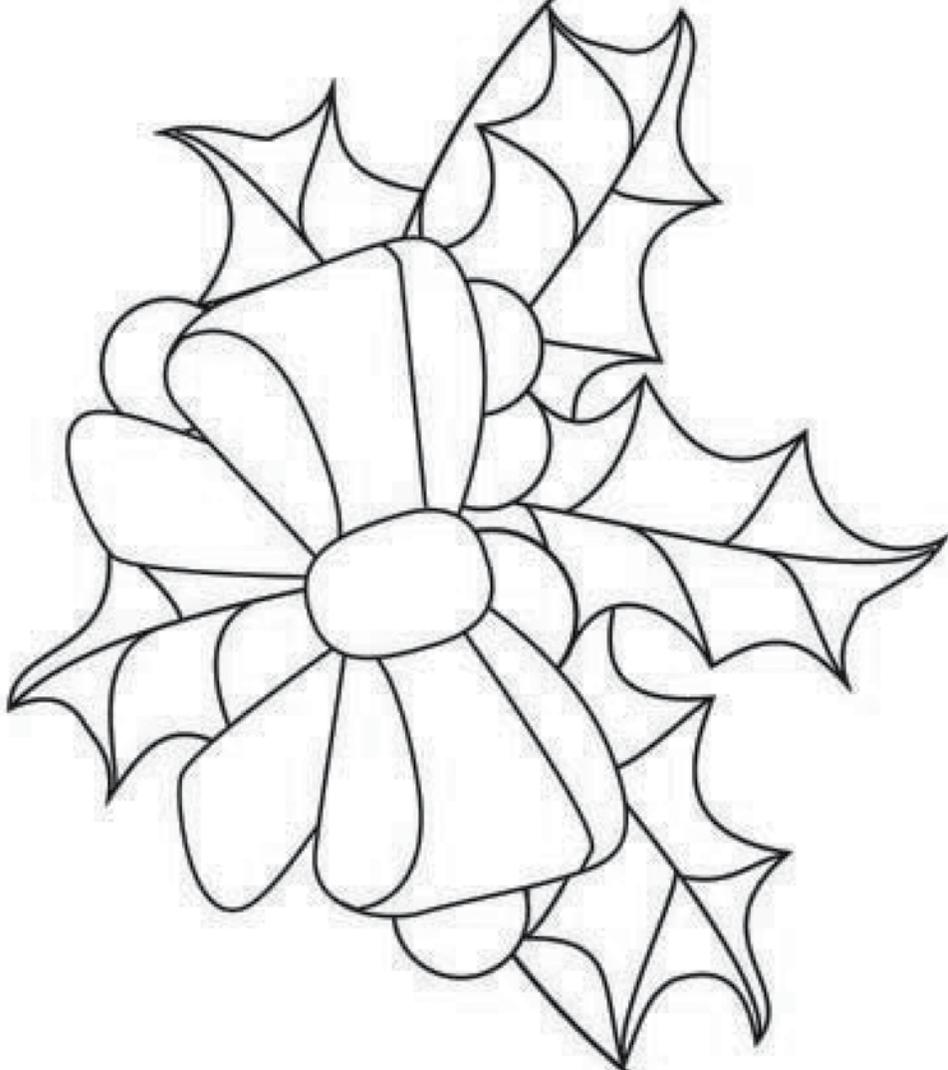


Candy Cane  
with Holly





**Bow with  
Holly Leaves**



## Holly Berries & Leaves

