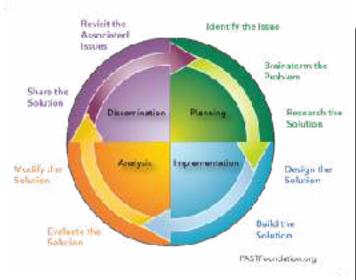


# Stained Glass Mini Challenge





**Problem Scenario:** Everyone is familiar with stained glass. Have you ever wondered why stained glass exists? In a time when people could not read, they needed stories and the stained glass art emerged. How would you tell a story in stained glass? How would you engineer it to be effective and strong?.

**Challenge:** Create a design for a stained glass project that is both strong and informative? What role does light and shape play in working with stained glass?

#### Criteria:

- Your stained glass panel must be either 8.5"x11" or 11"x17" and made of card-stock
- You may only use the materials designated.
- You will have I day to design and build your solution.
- Your stained glass art must stand on its own.
- You must be ready to write a one paragraph story about your stained glass art.
- Your stained glass art must allow light through the colored areas.
- 1. Brainstorm: Use the space below to brainstorm the design and approach to building a strong stain glass panel.
- Where did Stained glass originate?
- Why is it magical looking?
- How did it tell a story?
- Why did it have to tell a story?
- Why do we need to use cardboard or card-stock for the black lines?
- How does the material influence the design?
- How does line thickness or placement influence the design? The strength?

## 2. Design:

- 1. Create a design either on paper first or directly on card-stock. 2. Go over your design with a thick black
- marker. • If transferring from paper to card-stock,
  - color the backside of your paper design with graphite or use carbon paper.
  - This creates a carbon trace.
  - Place the drawing onto the card-stock and draw over the design to transfer it to your clean card-stock piece.

## 3. Build:

## Materials:

Glue or Glue Stick, Pencil, Xacto Blade or Scissors, 1. Carefully cut out between the lines on your final

Card-stock, Markers, Paper, Colored Tissue Paper,

- card-stock design using an X-Acto knife or scissors. 2. Color in the remaining card-stock with a black
- marker. 3. Cut your tissue paper to size so it fits into your
- spaces and can be glued in behind. 4. Glue your tissue paper to the back of the
- trimmed stained glass frame. 5. Color in your tissue glass if needed.
- 6. Shine a light through your stained glass.

### 4. Evaluate:

- 1. Is the line work strong enough?
- 2. How could you make it stronger?
- 3. Is it telling your story?
- 4. Pay attention to the artistry in stained glass you see around you or on the web.

## 5. Modify:

- 1. You may have to make modifications.
- 2. Make a change to your next stained glass design.
- 3. What happens if you alter the thickness or placement of the lines?
- 4. Can you use different materials for the glass?

#### 6. Share:

Share your creation on Social Media!

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Use the hashtag #ThisIsPAST or #DesignThinking