

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 1 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.

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?

3. Build:

Materials:

Card-stock, Markers, Paper, Colored Tissue Paper, Glue or Glue Stick, Pencil, Xacto Blade or Scissors,

1. Carefully cut out between the lines on your final 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.

6. Share:

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