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Professor Long

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For my project, I wanted to explore how math connects with fashion and design in a creative, personal way. By combining mathematical ideas with sustainability and self-expression, I decided to make a scarf inspired by the Mobius Strip, which we learned about in class. A Mobius Strip is a one-sided surface with only one edge—created by giving a strip of paper a half twist before joining the ends. When we did this activity, I remember wondering how I could apply the Mobius concept to something more wearable. That’s when the idea for a scarf came to life.

I’m using thrifted fabrics to give the piece a sustainable and personal touch. Each material has its own story, and together, they add meaning and texture to the final design. A key feature of the scarf is a blue band that runs through the center. I chose this color and placement intentionally to highlight the Mobius Strip’s continuous loop. Since the strip has no real “front” or “back,” the blue line helps show its endless path and acts as a visual thread that ties together the themes of fashion, math, and sustainability. I wanted to use a scarf as a way to show that math doesn’t have to live only on paper—it can be part of how we dress and express ourselves, too. The Mobius Strip becomes more than just a concept; it turns into something you can wear and relate to. Just like math, fashion takes creativity, problem-solving, and an eye for detail. My scarf brings mathematical theory into the real world in a way that feels both thoughtful and accessible.

What I loved most about working with the Mobius Band is how it symbolizes unity, continuity, and even infinity. This project helped me see how math can be woven—literally and figuratively—into everyday life in ways that are unexpected, beautiful, and meaningful.

