‘Structure’ Project 2

Brendan Dutton

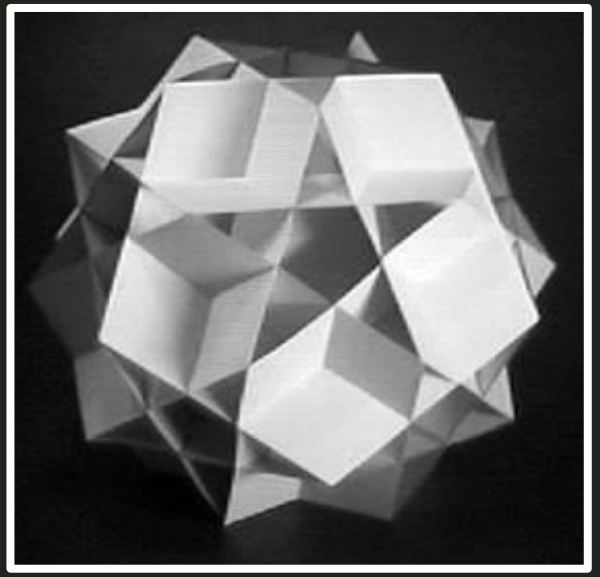
Documentation of precedents



Shannon Finley | Floating Points (2018) | Artsy



www.1stdibs.com



Slide-Together Geometric Constructions

My main inspiration for this assignment was geometric art structures made out of simple triangles to create a complex shape. I wanted to this because triangles are the strongest shape and can hold a lot of weight so I knew it could support the steel ball. I also love the reflective look of these precedents and thought that it would contrast well with the reflective nature of the steel ball, almost making it blend in with the structure I create.

Different Forms of Material

1.



2.



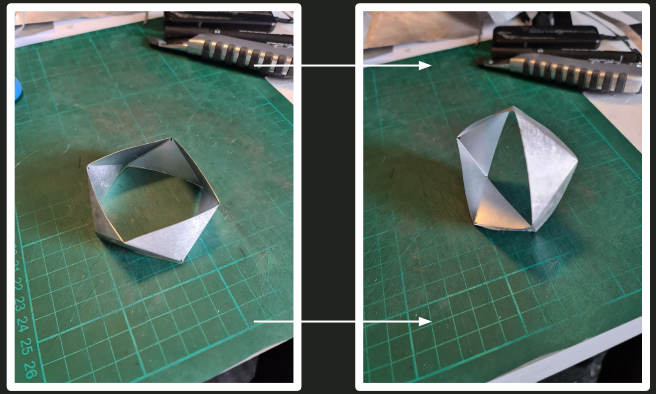
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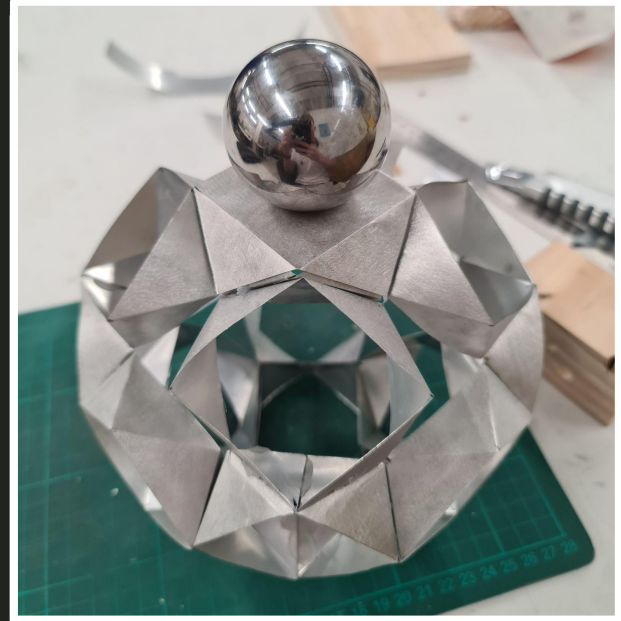


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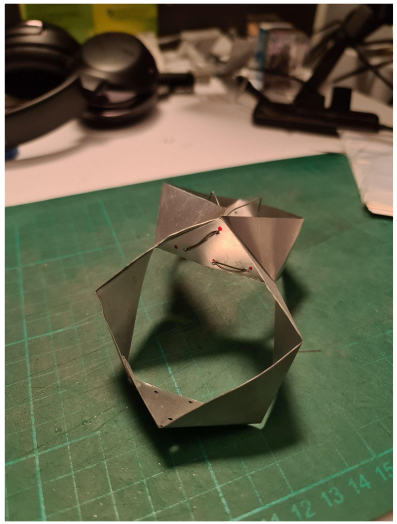
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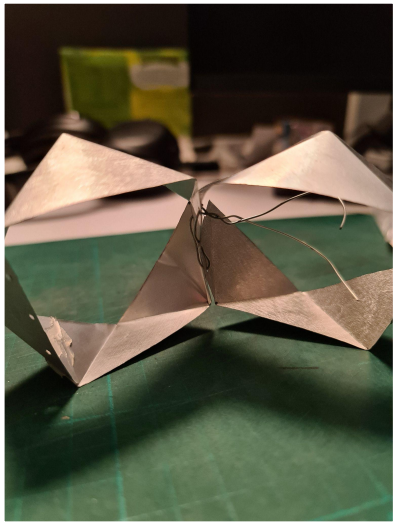




To create my model I firstly started experimenting with different shapes I could make until I came across this one (left). I found that this shape could be connected over and over again to create a circular shape. This shape was strong enough to hold the steel ball at the top but also wide enough at the base to cover the steel ball as well.

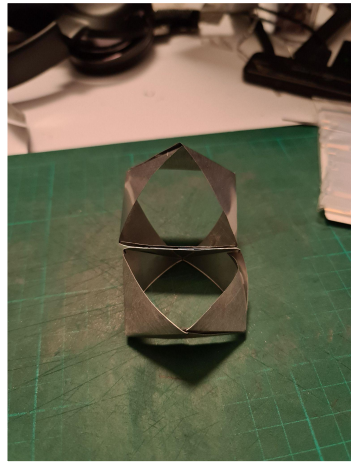
Design Iterations and Experiments



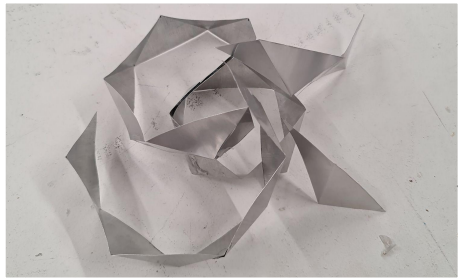


I experimented with different ways to bind the shapes together such as wire, different types of glues bout ultimately found that hot glue was the easiest and cheapest way to connect the pieces together. This method wasn't as time consuming as using wire and buy the glue sticks was cheap. When using wire I had a problem where I couldn't get it tight enough for the shapes to stay together.



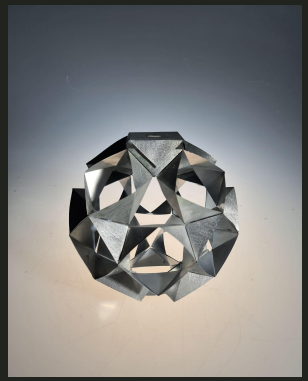


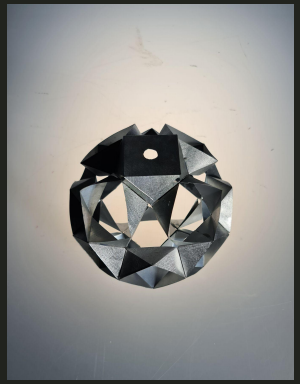
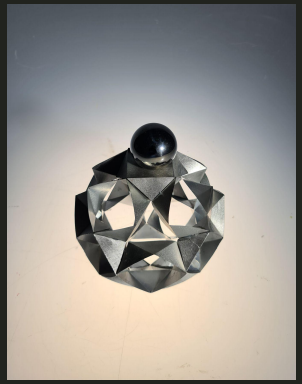
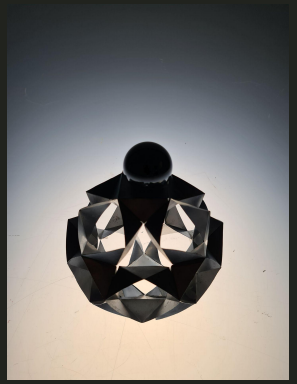
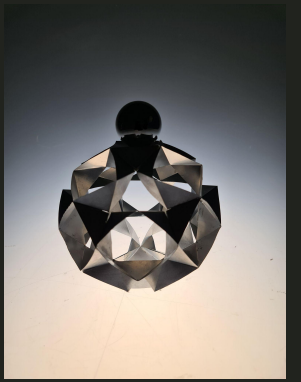
I tried different sizes for the shapes such as 6 sides and 4 sides but found that using an 8 sided shape was the best. Every version I made with less sides than 8 were much smaller and harder to connect. The 8 sided shape was also much stronger and spacious than all other versions. I also think it looks much better.

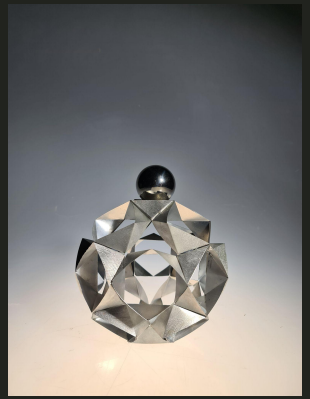
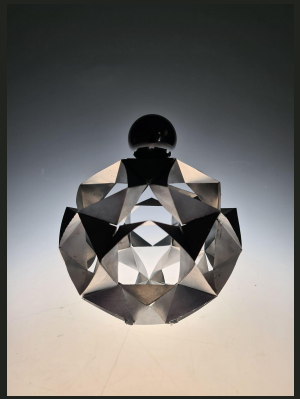
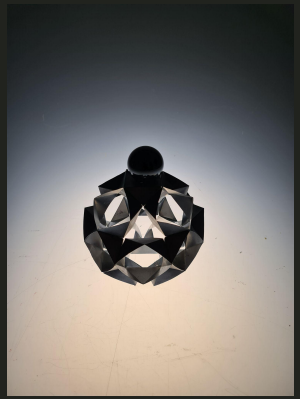


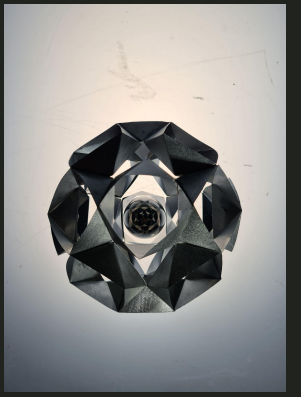
To fold the shapes I experimented with different ways such as scoring the metal with a knife lightly, creasing it without scoring and cutting each triangle and connecting then after. I found that using a knife to lightly score the triangle was the best way to fold this. This ensured a nice sharp corner. When I did this I had to be very careful as to not break each section off on accident.

Physical Model (Favourite Photos)



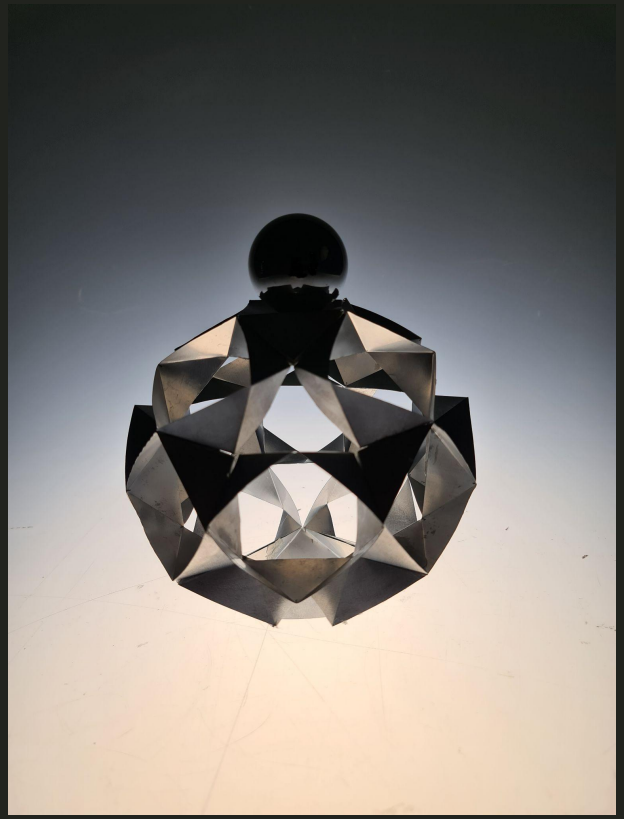





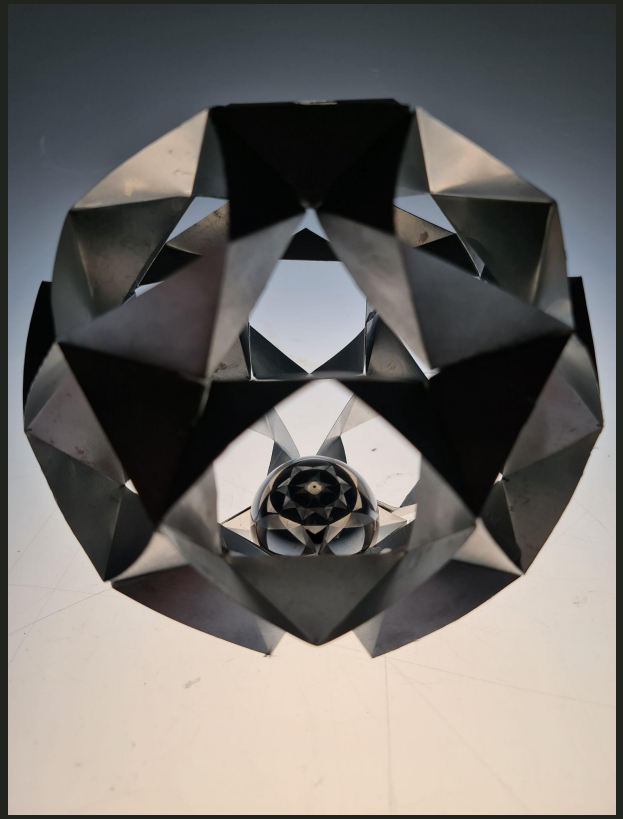






‘Structure’
DSDN 141

Physical Model







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