

Lunar Art

Congratulations for being chosen to be a NASA HUNCH Finalist for Design and Prototyping. Know that there were a lot of very good teams with great ideas competing for these spaces. Being a Finalist means you are already a winner. There is not a 1st, 2nd, or 3rd place—there are only Finalists. Although HUNCH would like to have all of these projects turned into flight hardware, most won't make it that far. However, some of these ideas may inspire other hardware and equipment. This is like real engineering where any of the projects or ideas in a project that are deemed valuable to NASA could be incorporated into another project. NASA has no intention of taking or stealing ideas. HUNCH has every intention to keep your names attached to those projects so that you and your team retain credit for your ideas and efforts. In general, NASA does not seek patents on space hardware unless there is a use for it on the ground that could be valuable.

Suggestions for the Final Design Review

Houston in the middle of April is warm and humid. The building is air conditioned but there will be lots of people. Rain is possible.

- Look professional.
- Everyone on the team should plan to talk.
- Update your brochure with you latest prototype and information.
- Make sure your QR code works for everyone.
- Update your tri-fold with your latest information—less about early concepts, more about features.

The better your model looks, the less you have to say.

- Take a video of everything working well so if it fails when you arrive, you can still show functionality.
- You will be sharing a table with another team. Make sure your display will not take up more than half of a 6 ft x 2ft table. There will be some tables with power and some without. We will try to give priority to those who need it for the presentation—video.

Suggestions for Lunar Art

- Be ready to explain why art is important on the moon.
- Show what materials you are making your art from.
- Are there special procedures for how to obtain the materials or how the art could be produced?
- Have a scaled representation of your art that will fit on half of a table.
- Are there specific tools (available on the moon) that they should use to make the art?
- Be prepared to talk to people who may not think that art is important for space travel. Think about the POSITIVE conversations you can have with these people about why astronauts should be allowed artistic freedom - especially in the manner you have shown. Don't be confrontational.
- Be able to explain the timeline for doing your art.
- Is your art only meant to be therapeutic during the creation process or to aid in it while on display?
- Are there any historic aspects to your art?


Why Wire Wrapping?


Out of our wide variety of ideas, why was wire wrapping the best?



More Information

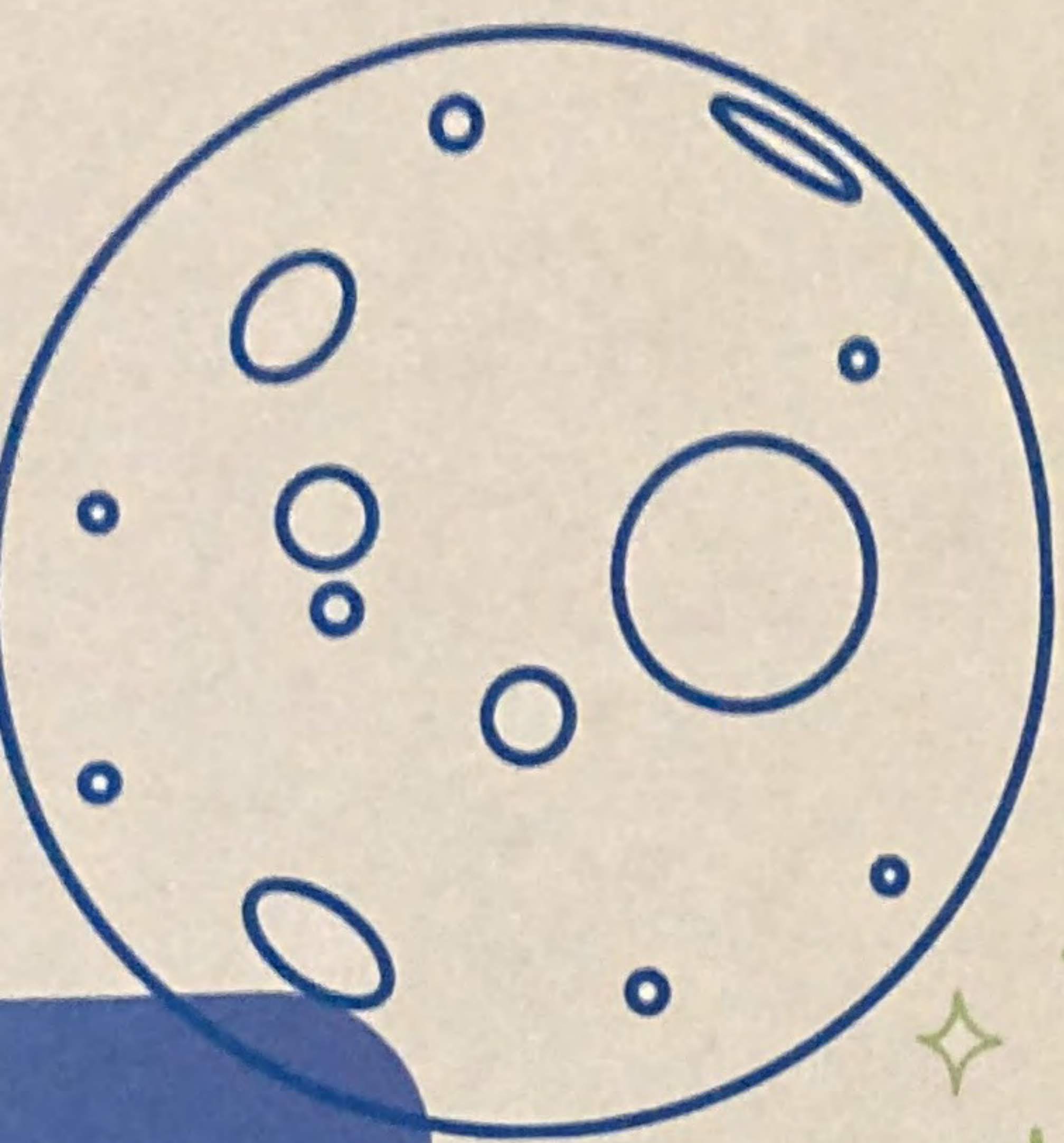



Not only does wire wrapping reuse a variety of materials on the moon, but it can be made in various difficulties and styles.


Wire wrapping can take a wide variety of time to complete and this art can be done over and over with a different design each time

**SHAKOPEE
HIGH
SCHOOL**

Mr. Hendrickson



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Brynn Leary

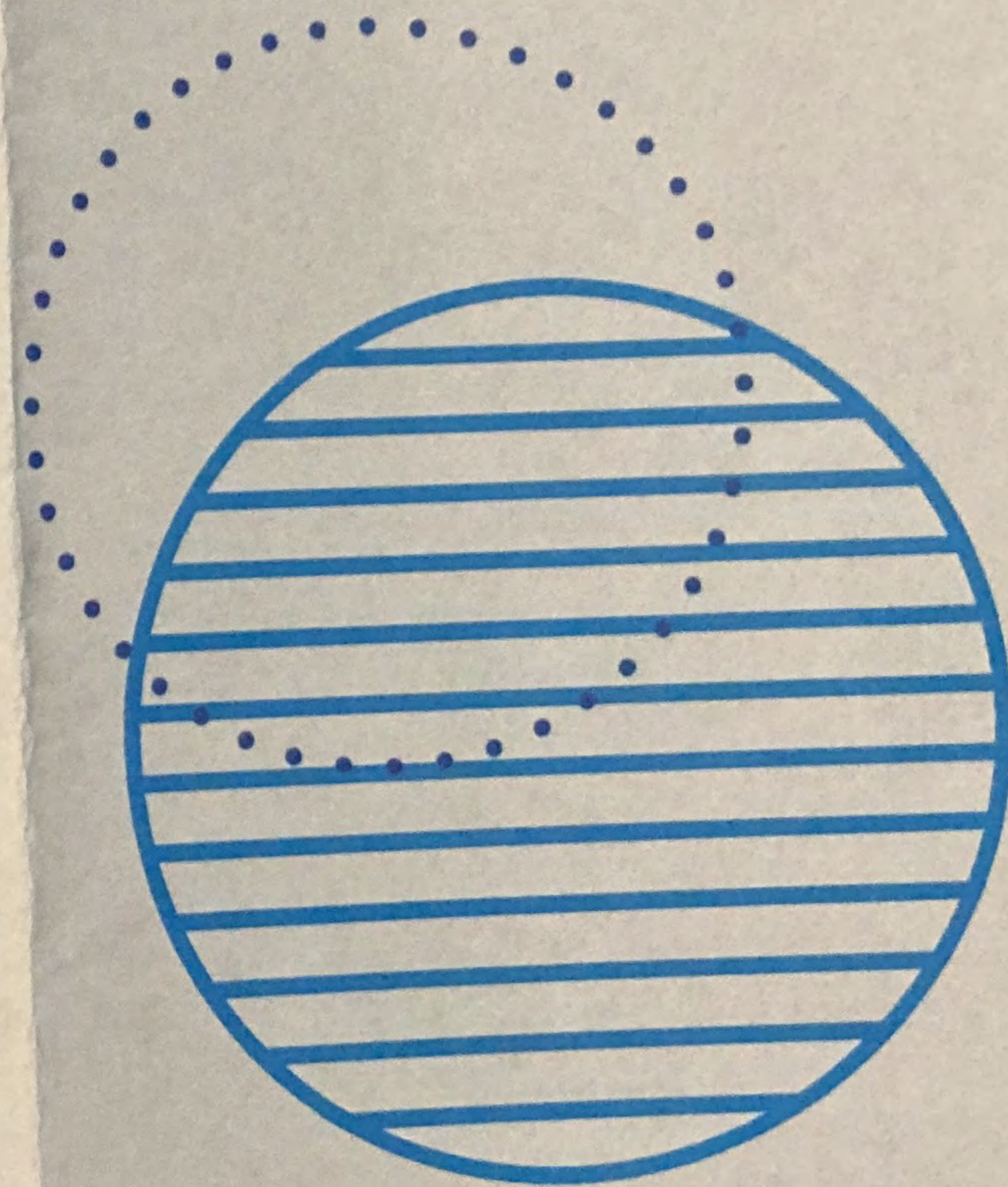
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NASA HUNCH

Lunar Art Project
Overview



Our goal is to find a way that astronauts can create art on the moon to help improve their mental health during their time in space.

Looking through the given materials, we were able to come up with the idea of using wire from old cameras and lunar glass to create wire wrappings.



Astro-Art
Wire Wrapping

My unique solution harnesses the natural pigments found in dried astronaut food to create water color paints that can be used in a low gravity environment to inspire NASA astronauts to create art while in space.

INGREDIENTS



HOW IT WORKS

I started by crushing up dried foods into a fine powder. I picked foods that had bright colors for better results. I then added water, honey, and black pepper oil and combined. The honey serves to add density to the paints to make them easier to work with in a low-gravity environment. The black pepper oil serves as a natural preservative to prevent bacterial growth.



Every ingredient that I used can be found already on board the ship or left on the moon. The paints can be stored in any cup with a lid and dust brushes left on the moon can be used as paint brushes. Most dried astronaut food comes in a plastic pouch and can be easily crushed by hand. Black pepper oil is found on board as a replacement for pepper corns.



FINAL ART PIECE

Once I let my paints dry for a day I was ready to create my art piece. I used a pen and paper to draw my design inspired by The Willow School Lions and NASA. I then used my watercolor paints and a small brush to color in the design. In conclusion, my paints behaved very similarly to real watercolors and serve as a great alternative.





This QR code will take you to a short video that shows step by step how I create my paints.



NASA
HUNCH

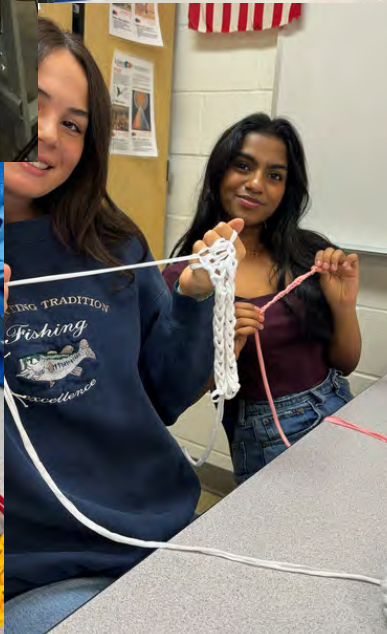
LUNAR ART ASTRO FOOD PAINTS

The Willow School
Mr. Matt Owen
Juliana Manalla



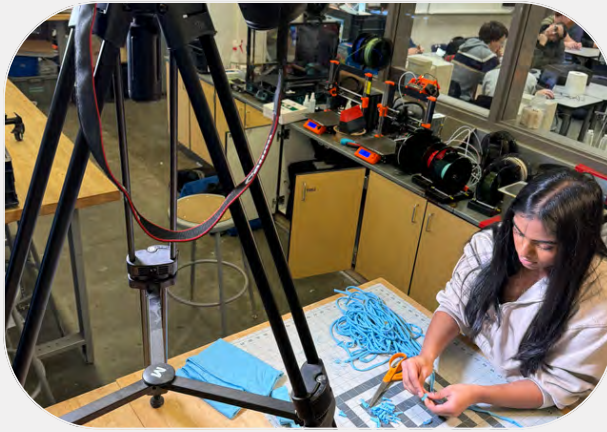
My design answers the question of how to paint in space **without** the use of any art supplies.





LUNAR ART
XANDER
LIGTENBERG,
LAHARI ROBBA,
AVA BAUTISTA

MR. WOODBRIDGE
OLYMPIA HIGH
SCHOOL
OLYMPIA,
WASHINGTON



ABOUT US

We are the lunar art group! Our hope is to inspire astronauts to make art in space in a way to express themselves!



HOW TO?

The barcode attached links to our YouTube channel which has a step-by-step tutorial on how to make your very own creation.

OUR IDEA

We can recycle our old, worn t-shirts and cut them into yarn. The yarn can then be used to crochet into blankets, seat covers, flags, or whatever your heart desires!

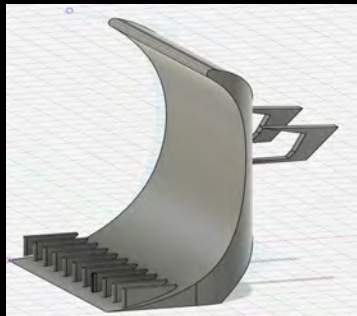




Dyes
capable
of
handling
extreme
temper-
atures



Side
View



Rock-Removing Plough



Josh Reid, Alex Lim, Abigayle Byers, Anela Monell, Quinton Ward (Pictured left to right)
Mentor: Frederick Herrmann



VR walkthrough



Heat Testing

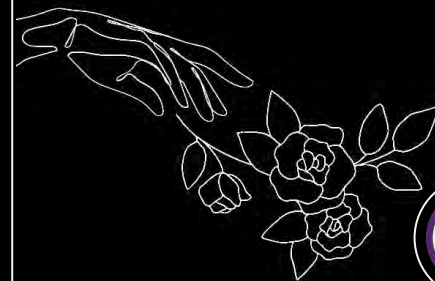


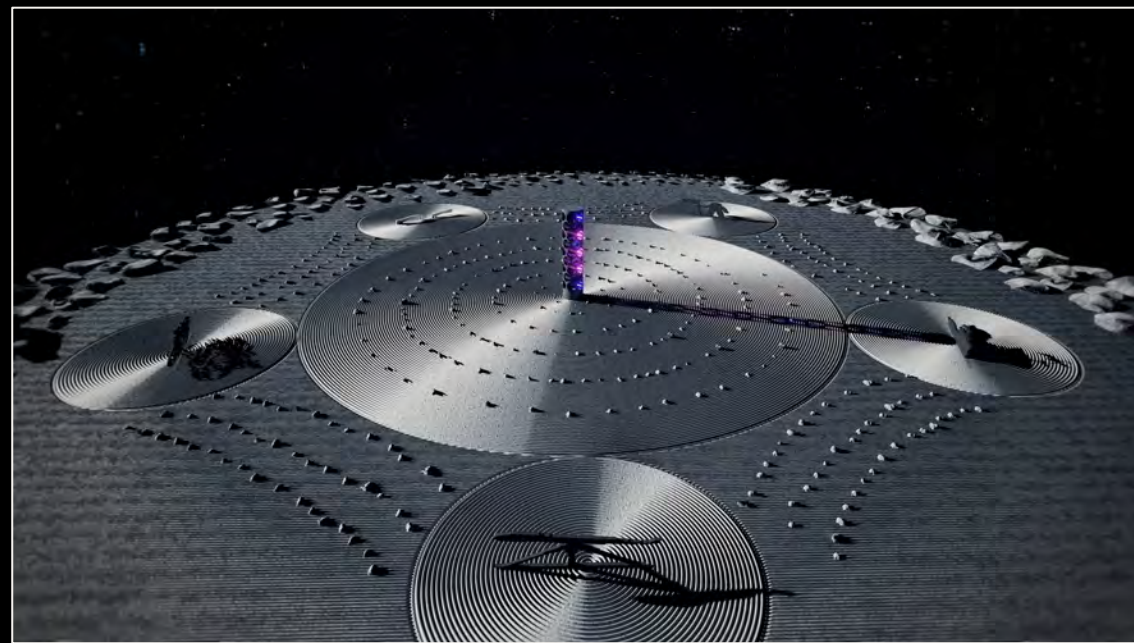
Basalt Pouring



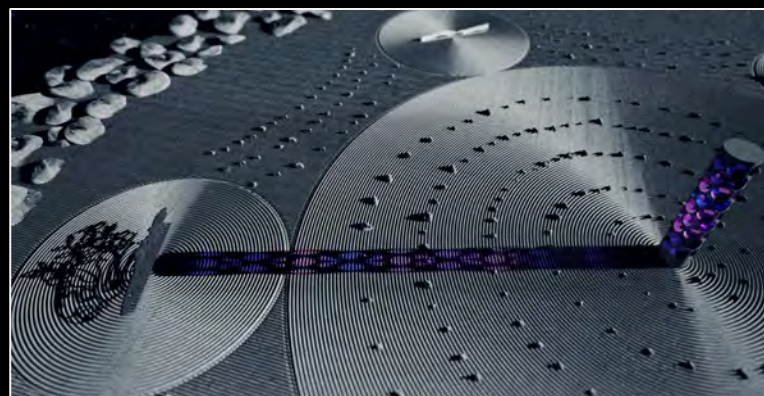
EVE

Lunar Art





- VR Reality Aspect
- Center Pillar: The Monument
- Shadow Monument Sculptures
- Color splashed across Lunar Surface through colored dyes
- Zen Garden Aspect



Colored Light



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