

Note to Semi-Finalists

Thank you very much for participating in the HUNCH Design and Prototyping. This was by far the most difficult year for deciding finalists. Part of the difficulty was the number of teams participating but the most important part was the number of high quality of prototypes for each of the 10 projects.

Each Mentor helped choose potential finalists for their area and were then compared with the same type of projects across the country. Teams that were selected to be finalists had very tough competition and it was very difficult to down select. Although everyone wants to be a finalist it isn't possible and decisions have to be made. Some of the decisions include the requirements but also trying to show diversity of how the problem could be solved. There was no shortage of good and diverse ideas.

Being a Semi-Finalist is a great honor because each of you put together a project and data that made the teams think, learn and be excited about space. Your great ideas and hard work is what makes NASA HUNCH a challenge and a great experience for engineering. We hope you enjoyed the projects as much as we all enjoyed seeing your prototypes.

If you are a senior and moving on to college, industry, or trade schools, make sure you include your project with NASA HUNCH on your resume. You will find that your interview will center on "what did you do for NASA?" The more you tell them, the more they will want to hear. You will be receiving a letter of recommendation from NASA HUNCH describing Design and Prototype and the project you worked on. We hope that your work will translate to opening doors for your future. Thank you for being in the NASA HUNCH Design and Prototype Program.

LUNAR ART CHALLENGE

Westlake Charter High School
4400 E Commerce Way, Sacramento,
CA 95834

AD LUNAM
CREW

Ms. Stamas

Mentor

Het Bhalaria

Designer



Art Form:

Photography.

Art

INSTRUCTIONS FOR ASTRONAUT

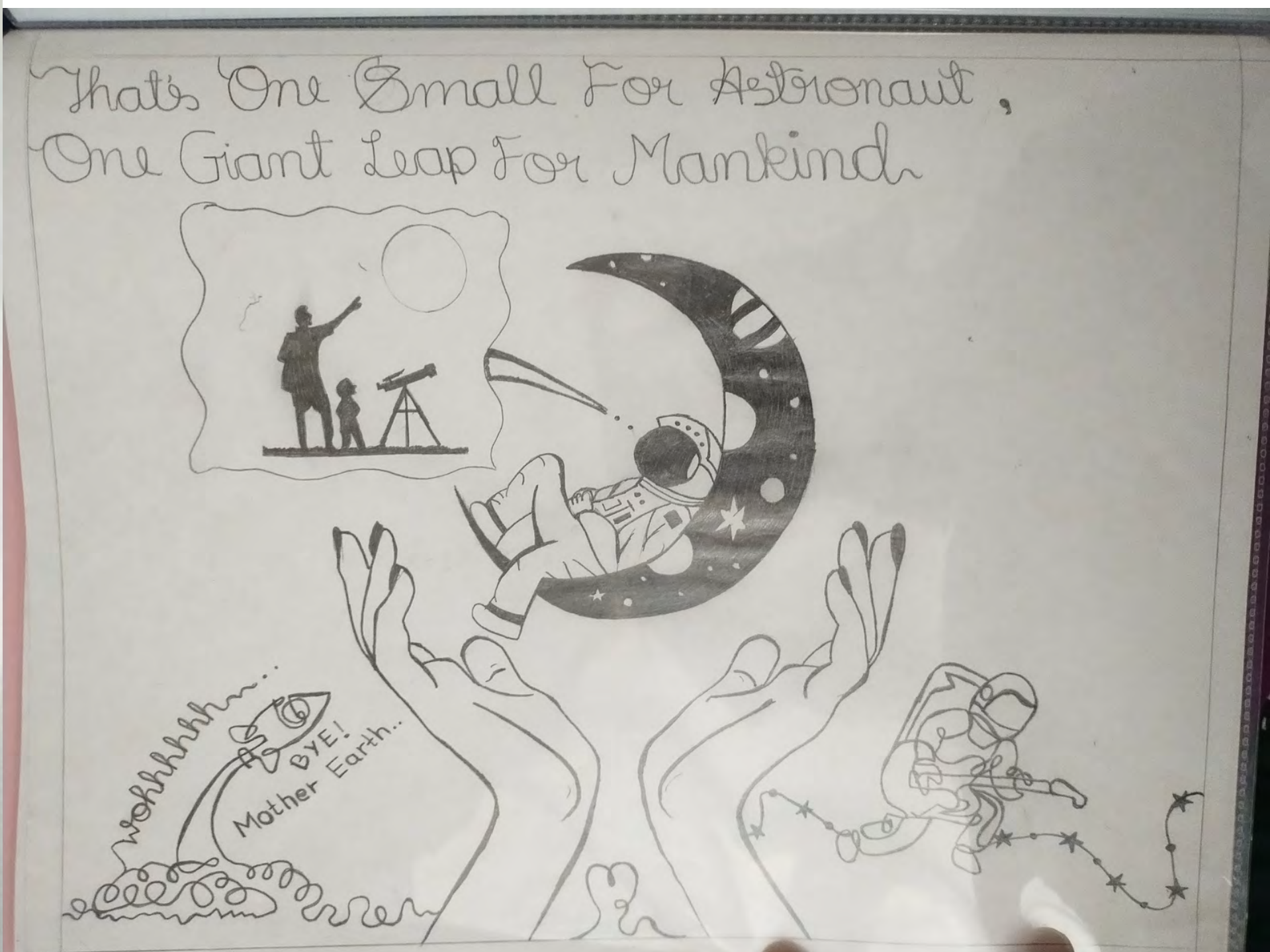
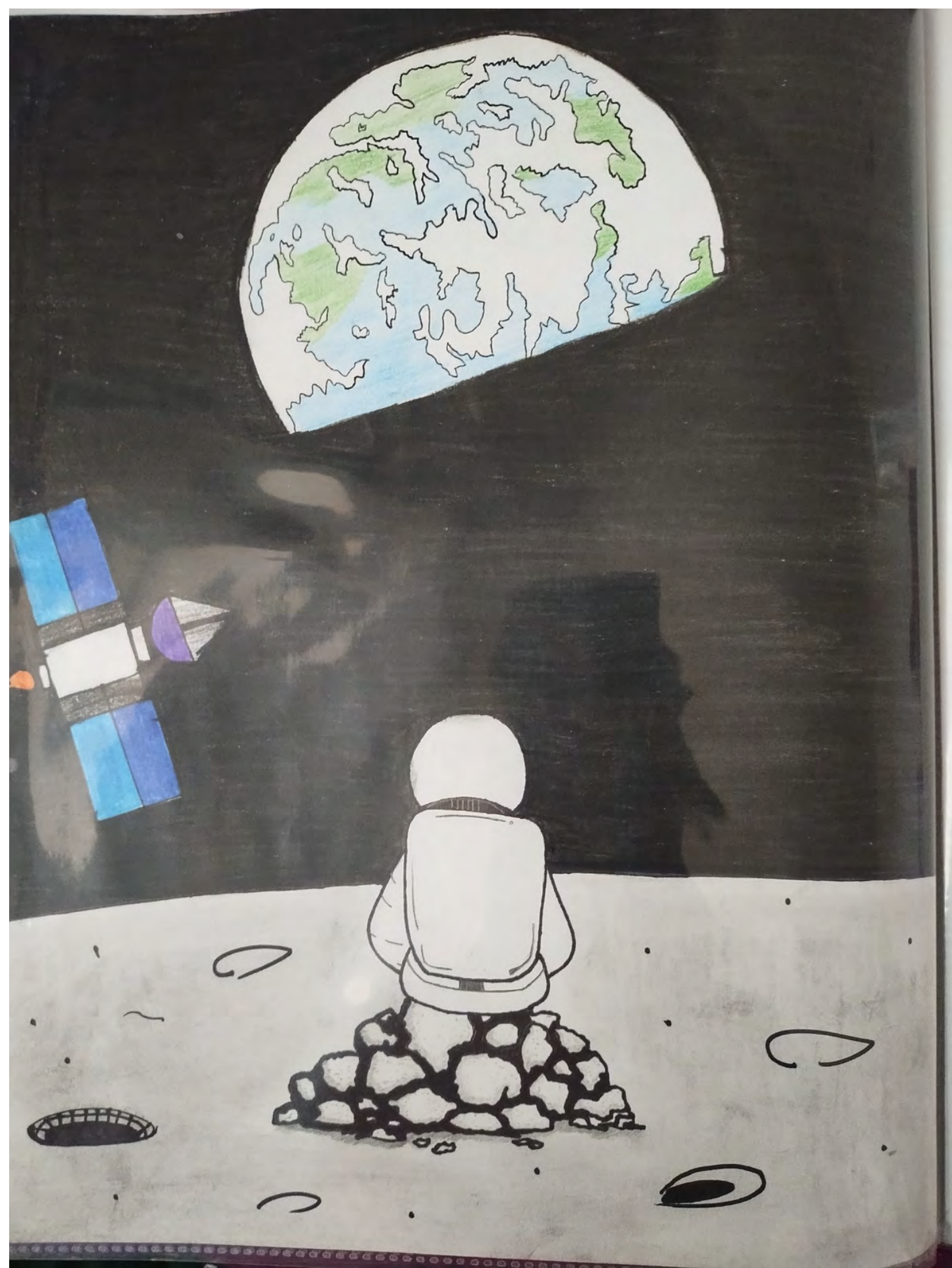
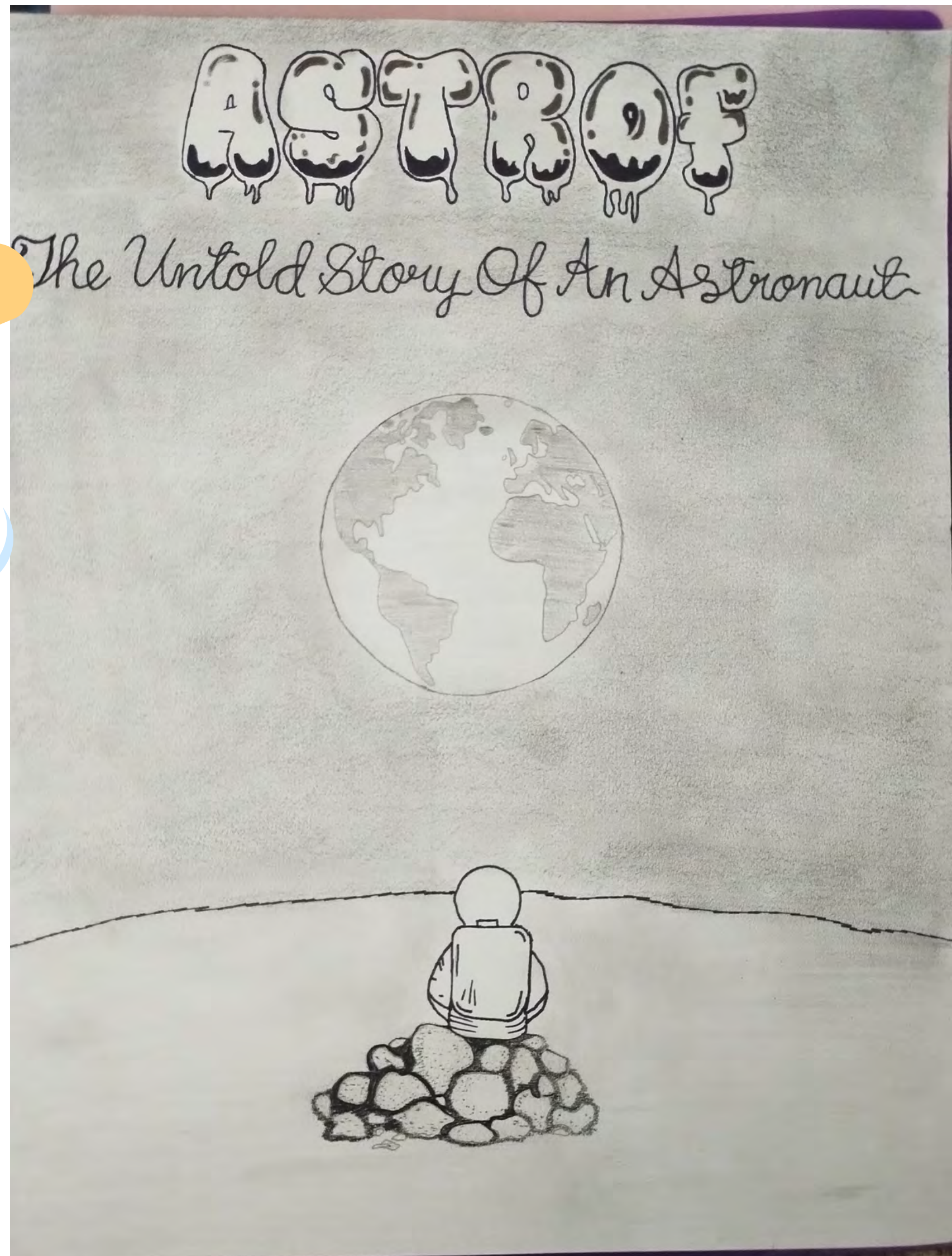
Take a photo for each of the following tasks and upload the photos through the website :

- 1. Health Check with medical staff**
- 2. Exercising**
- 3. Eating breakfast, lunch, and dinner**
- 4. Briefs and daily staff meetings**
- 5. Experiments**
- 6. Sparetime activities**
- 7. EVA Moonwalk**
- 8. Maintaining the HAB and/or Equipment**
- 9. Cleaning the HAB**
- 10. Personal Hygiene**
- 11. Sleeping**

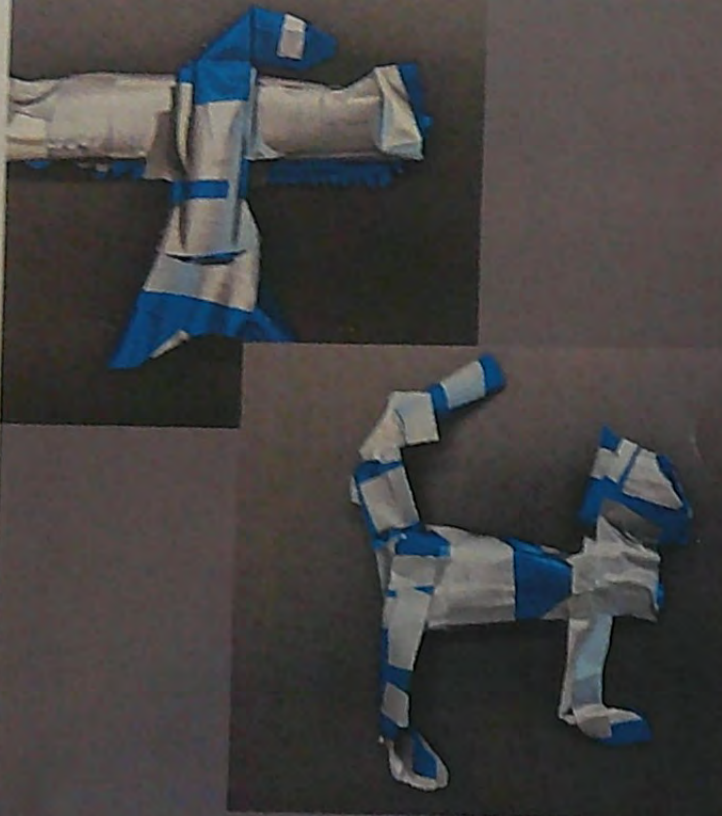
We will then create a book that represents the life of a Lunar Astronaut!

AD LUNAM!

ALL
THE
BEST!



Lunar Shadows Instructions



Our proposed solution is shadow animals. We want to create instructions for these crafts that the astronauts can make out of reused trash to create shadows on the moon's surface using the moon's special lighting. These puzzles will look like the shape from the front but from the sides, it would be unrecognizable bringing in another level of creativity to the puzzle.



Goals

For our project

We want to solve the problem of creating an art piece following the material constraints of moon expeditions that will inspire astronauts to create art on the moon while also representing why creating art on the moon is important for non-aesthetic reasons.

Testing



Names
Elle Vitry
Kyle Woodruff

Teacher
Kim Gunnels

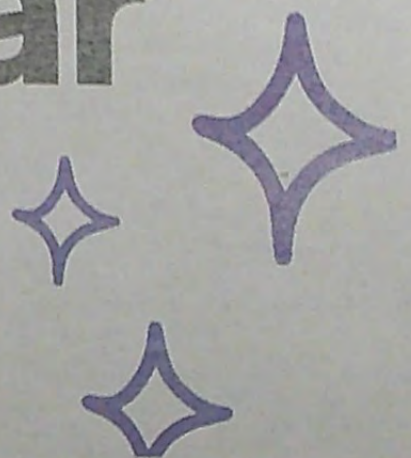
School
Plano ISD Academy High School



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NASA HUNCH

Lunar Art



CONTACT US



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Allen ISD STEAM Center 1680
Edgeview Dr. Aleen, TX 75013

Website:



Our artistic instruments are the wheels of lunar rovers.

These wheels are engineered to withstand the harsh lunar environment

We can shape patterns using rover wheels.

The tracks also contribute to lunar science, helping us understand regolith dynamics and material properties.



HUNCH

Lunar Art Challenge Rovered Regolith

(D&P)

Team #1



Mission:

Inspire astronauts to create art on the moon.

How:

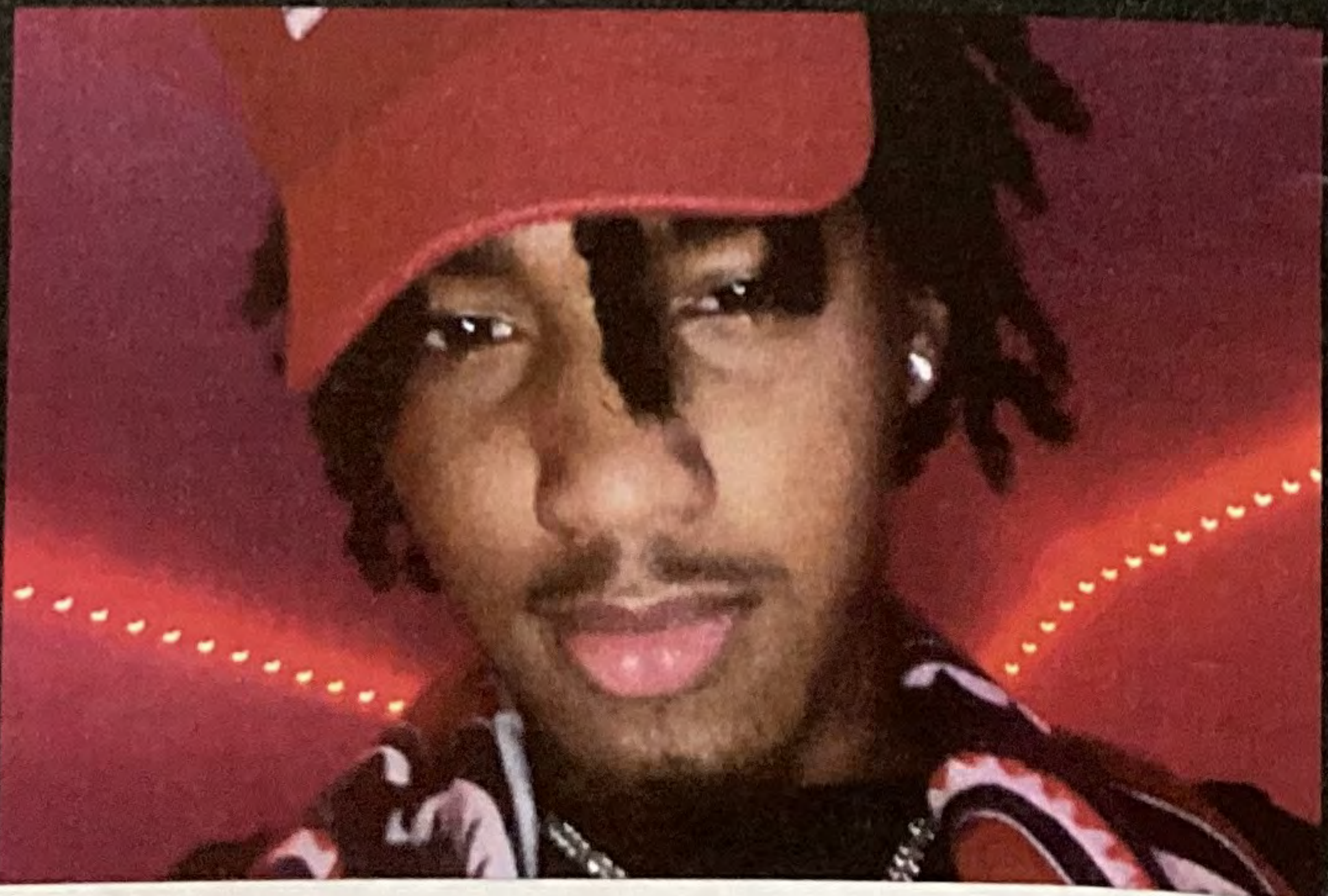
Using rover wheels on regolith to create designs with dimension and repetitive patterns



Andre Thompson



Fredrick Kalu



Contact Information

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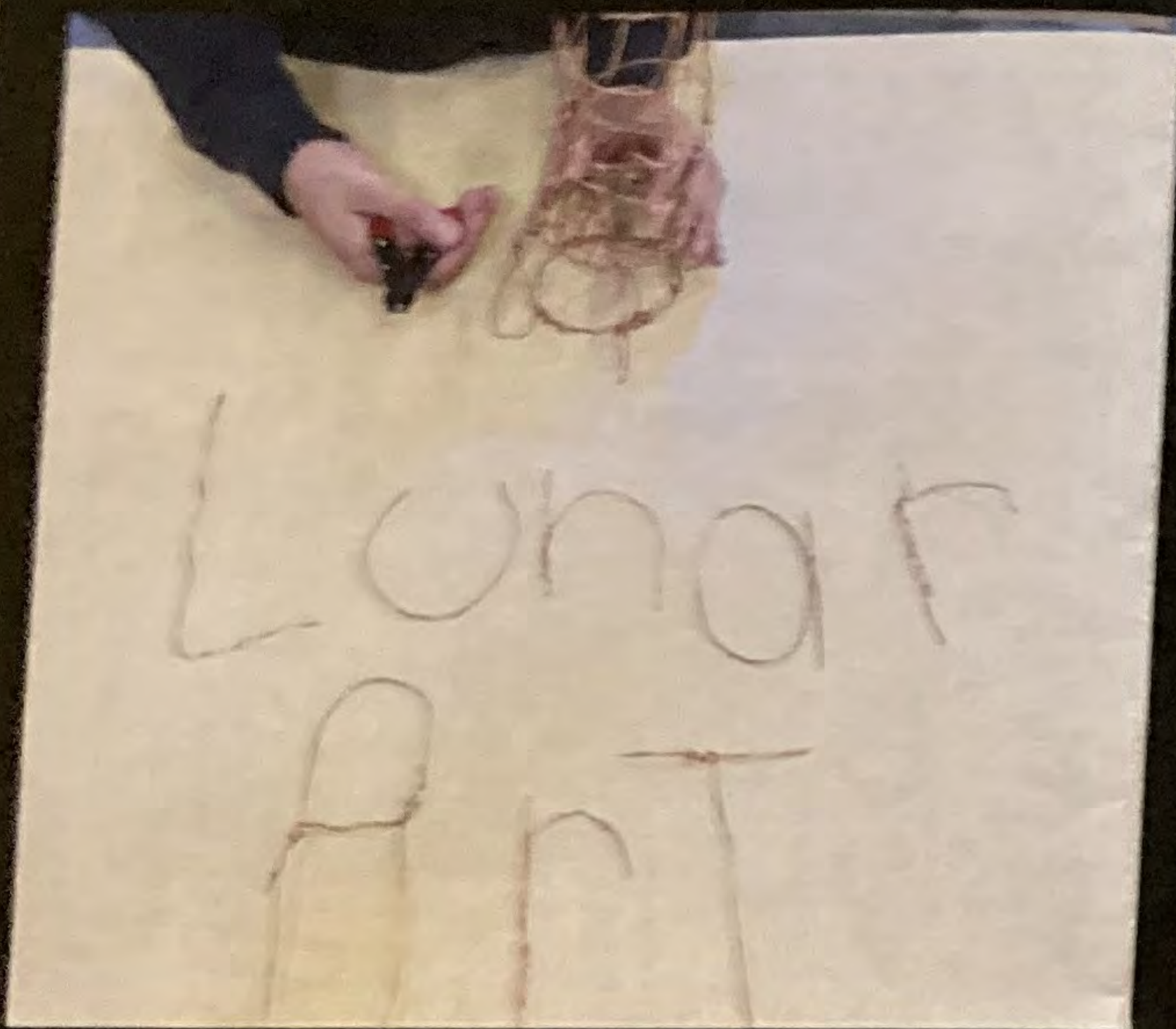
326985@students.alvinisd.net

Mr. Smith

jsmith2@alvinisd.net



Team Intergalactic



Why Wire Art

From the start of our project we had two ideas for what the art would be; a sculpture or drawing in the moon dirt. We did not fully want to damage the environment so we decided to go with a sculpture. The original plan was to use paperclips because they are very tiny and easy to build with, but then we were advised to use copper wire because it is also easy to transport. It is also visually appealing if the wire is fresh. Not only is copper wire a wide range for art, but it is easily transportable. With the information we were provided with, they needed objects that can be put on the space craft that will not take up too much space.

About Us

We are a team of young African American men tasked with creating Lunar Art. A team full of seniors at Manvel Highschool, who came together with the love for art. We also loved the idea of inspiring astronauts with a piece of art that they could make on the moon. Outside of school, I (Andre) and Fredrick are student athletes who have been on varsity football for at least 2 years.

About Manvel High School

With a senior class of 750+ students, Manvel Highschool is pretty big school. 1 of 4 high schools in Alvin ISD, we are the 2nd oldest school and pride ourselves with our athletic programs. Manvel has taught us many life lessons.



Our Project

Main Features

- Copper Wire
- Kinetic Sand
- Creativity



SCAN HERE

Tee shirt yarn blanket ocean mosaic

Visitation

Ms Little

April

In my project I tried to incorporate multiple different ways that people can make my project. I tried to incorporate lots of freedom, so that the astronauts could create something that they like.

Even though it has a lot of freedom I picked a design that they will do, the design is one of the ocean.

The astronauts would all make different segments of blue finger knitted blankets out of tee shirts, then the astronauts would sew the different segments together with dental floss and a medical needle. If the astronauts don't have a lot of time on their hands they could make a smaller segment. This project would be something that would be passed on from mission to mission, and on each of the astronauts segment they could sun bleach their mission number and their initials. They would do this by making a paper cut out and putting it on their segment and leave it outside for it to imprint it into the segment.

When stitching the pieces together you can use whatever stitch they want to use, what they are more comfortable with. The astronauts can use different paper cut outs with old documents to make a stencil so they can put their mission number and or their initials on the patch of their tee shirt.



The tutorial that I used to make the yarn with old tee shirts.



The tutorial that I used to make the Blanket



This is an example of what they could do



Here's what my prototype of it looks like



LUNAR ART (AND WHY IT SHOULD BE DONE)

The Project Itself

Lunar art is a very interesting concept that I have the honor of working on. The goal was to create an art piece to inspire an astronaut to create their own artwork on the moon. My take on the idea is shown below, a lunar rock cairn. (image below generated by Canva AI)



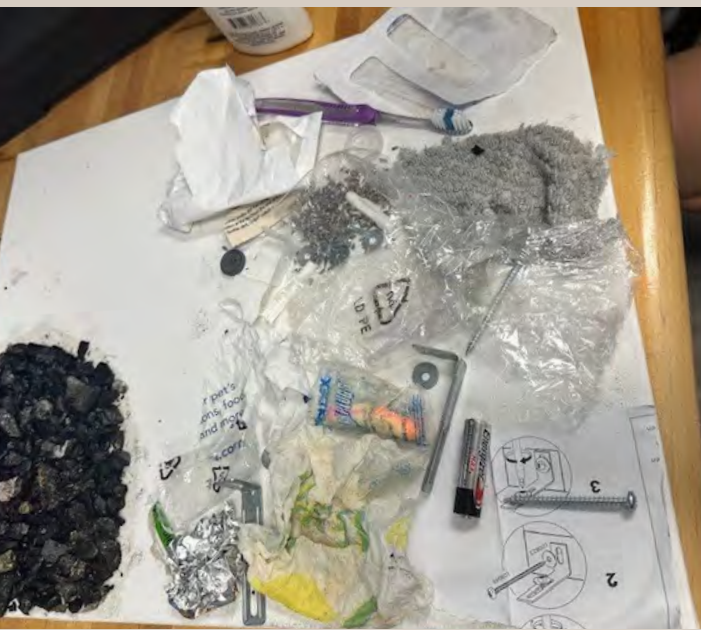
Resources



↑
DESIGN BRIEF

PROJECT SLIDESHOW
↓





The benefits to creating a collage.

Creating this art piece can reduce the amount of loose trash that may be disposed of on the trip.

By utilizing materials that would otherwise be thrown away, such as plastic bags and cardboard boxes, we can transform them into something beautiful and useful. Not only does this help reduce waste, but it also encourages creativity and resourcefulness. Plus, bringing along a unique and personalized art piece can add an extra special touch to any adventure.



The Team!

Nathalie Paredes
Byron Hernandez Lopez



Lunar Art

MAKING ART IN SPACE!

The idea behind the collage.

The central idea behind the collage is for it to be a time line of the entire trip in space. To give a slight example of the conditions to live in space for a certain amount of time.

Each segment of the collage will represent a different stage of the journey, from the launch to the landing. The items will represent the various aspects of life in space, such as the cramped living quarters, the limited food and water supplies, and the exercise routines necessary to maintain physical health. By creating this time line, everyone will be able to gain a deeper understanding and appreciation for the challenges and rewards of the space exploration.

Lunar Art



The main point of my project is to inspire the astronauts on the Artemis mission to create artwork of their own. Since we were only allowed to use item on the spaceship, I decided to go with trash since it was the easiest obtainable material, and reusing the trash would give it a purpose.



The leaves of my tree are created with the plastic that come in packages. I also used amazon packages that our school recieved.



The trunk of my tree is created with a paper that's thicker than printer paper yet thinner than cardboard. This is typically used to wrap glassware in order to protect it from breaking.

ELIZABETH
HENNESSEY

Since we practice recycling on Earth, I thought it would be fitting to practice on the moon as well to send a message to everyone. The recycling we do isn't our best, and I think that if we can recycle on the moon it would help us recycle on Earth.

The Willow School
Matthew Owens

ABOUT ME

While conducting my research for my project, I needed to find the different kinds of trash the astronauts would produce while in space. I discovered that they create waste from food packaging and from packing materials. This is where my idea came from, since here on Earth it's very easy to find those kinds of trash. Since there is no way to recycle/discard those materials, it would be useful to create art with them so they're given a purpose. It can help minimize the amount of trash that is taken up in space and be creative at the same time.



From the research I gathered I decided to use the plastic/food packaging to create the leaves of my tree since I could knot them and mold them into a different shape resembling leaves in a way. The paper material would be turned into my trunk since I could create a bark like texture by crumpling it up before using it.



Every since I was little I've been creating art in different formes; painting, sculpting, legos, etc. I've always wanted to create something that would impact society in a positive way, and through this I feel like I can achieve that goal.

In my final design, I used hot glue to glue my trash to a cardboard background. Obviously in space hot glue isn't accessible, therefore cannot be used as the end material to connect everything. I thought about other options that could work in the same fashion and be something the astronauts would actually have in space. My ideas were either some form of string or even dental floss. Both would be items the astronauts would have uses for while in space. Instead of the tree being on a background which would require an adhesive of some sort, the astronauts could create a sculpture. With that being said, in order to include an aspect of the moon in it, I thought about potentially using lunar rocks as a form of paper weight to help keep the sculpture from floating. The rocks could be added to the middle of the sculpture as a hidden object, or on the edges of the trunk/roots allowing for their visibility.