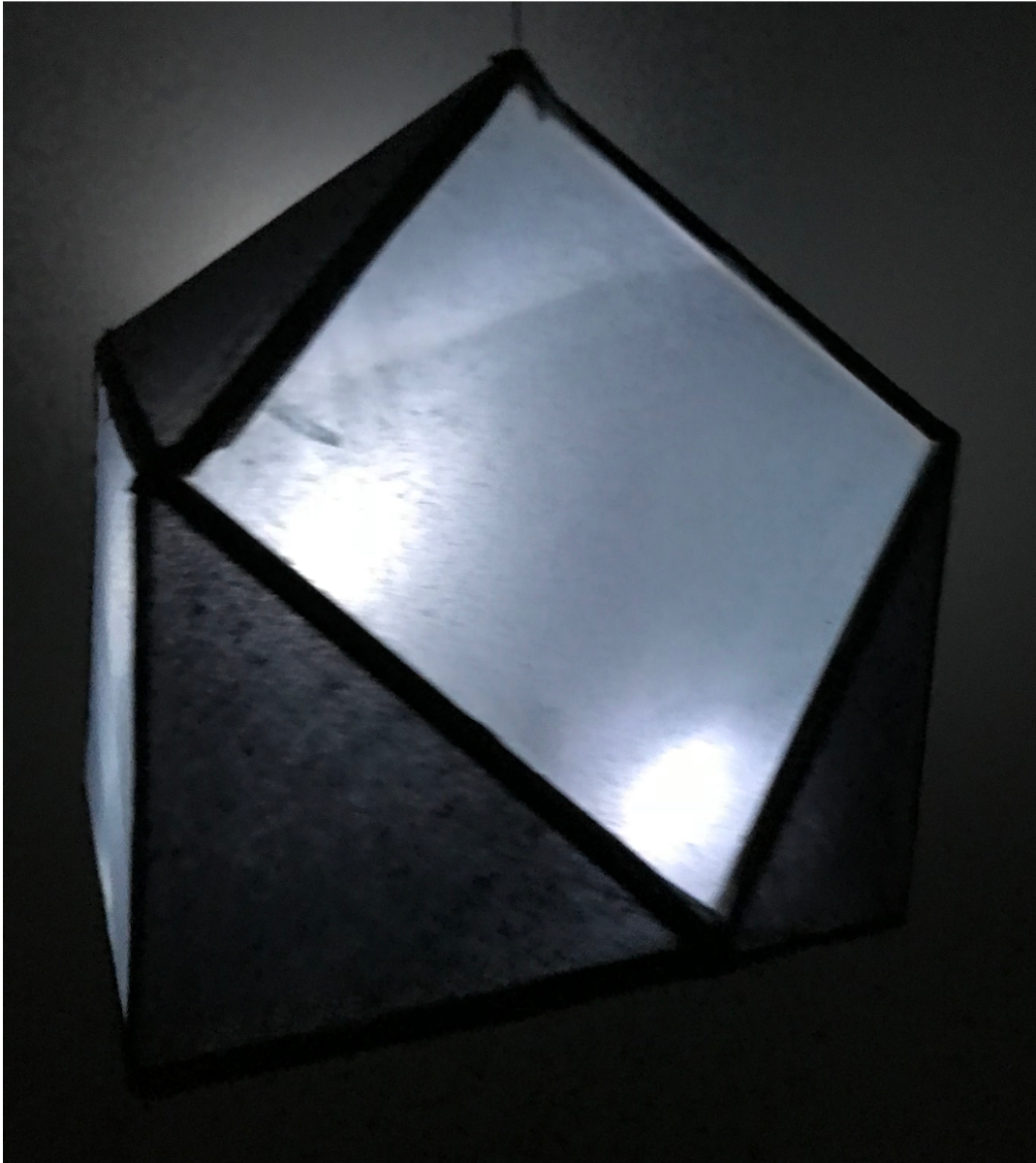


# **Journey Back to Guadalajara, Mexico**



**“Light the Way” Project 2018  
Makenna Nystedt**

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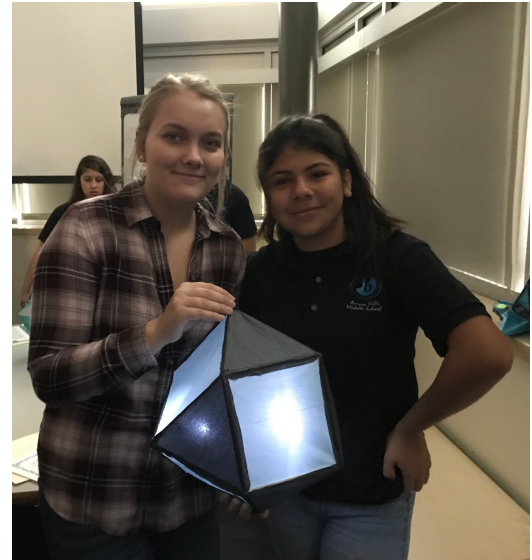
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# Spanish

## Standard:

I can identify common practices and products within the target cultures studied. Identify similarities and differences of the student's own language and the language and culture of the language studied.

For the spanish component of this project, I interviewed a 13 year old girl named Natalia Munguea. Natalia predominantly speaks spanish with a small understanding of english. I had a list of questions regarding interests, lifestyle and her life in general. The key to this interview was that I needed to speak to her in spanish. The interview went very well and we were both able to help each other with our native languages. The second part to this subject was to write a summary about my vignette. In my summary I talked about what Natalia likes, when her family moved here and what she misses about Mexico.



## Struggles:

When thinking of interview questions to ask, I had a hard time making questions that I knew I could ask in spanish. I needed to make sure that all the words I used were in my vocabulary and that I could put them in the right order and tense. When doing the actual interview, I felt pretty confident when talking to Natalia. She helped me with some words if I was not able to understand how I should say it.

## Outcome:

Both my interview and vignette went very well. I got a lot of feedback on both so I could improve in my writing. I was able to create good questions and a good vignette so that I could get to know Natalia and be able to talk about her in a good way. Some of my interview questions and my spanish vignette summary is on the next page

## Interview Question Examples:

1. ¿Cómo han influenciado tus amigos y familia en tu vida?
2. ¿En qué religión crees y por qué?
3. ¿Cuál era su vida como crecer?
4. ¿Qué tradiciones tienen su familia?
5. ¿Qué religión crees en?
6. Dime un historia sobre ti. ¿Quién eres?
7. Prefieres tu vida en colorado o en méxico
8. Tienes más amigos en méxico o en colorado
9. ¿Qué quieres que escriba sobre ti?
10. ¿Qué clase de música escuchas?
11. ¿Qué tipo de ropas te gusta llevar?
12. ¿Qué deportes te gusta jugar o ver?
13. ¿De dónde es tu familia?

## Spanish Vignette

El nombre de mi estudiante es Natalia Munguea. Natalia creció en Guadalajara, México con su madre, padre, hermano, hermana y abuela. Cuando Natalia tenía once años, su familia se movieron a Aurora, Colorado porque sus padres recibían un trabajo. Sus padres ambos trabajan en construcción. Natalia y sus hermanos van a escuela cuando sus padres están trabajando. En escuela, la tema favorita de Natalia es las ciencias porque Natalia le encanta participar en los experimentos. También Natalia le encanta jugar al fútbol tanto como haciendo tacos con sus padres. Su familia tiene un conejillo de indias y un perro. Natalia sueña de teniendo un gato pero porque su familia tiene un perro, Natalia tiene que esperar para tener un gato hasta ella es mayor. Cuando la familia de Natalia movió aquí, su abuela se quedó en México. Dejar su abuela era difícil para su familia. Natalia echa de menos su abuela. En el futuro, Natalia planeará mover a México para estar con su abuela.

# English

## Standard:

Write with a clear focus, coherent organization, sufficient elaboration, and detail. Effectively use content-specific language, style, tone, and text structure to compose or adapt writing for different audiences and purposes. Apply English conventions to effectively communicate with written language. Implement the writing process successfully to plan, revise, and edit written work.

For the English component of this project, we were paired with a student who spoke little to no Spanish. I was partnered with a 13-year-old girl named Natalia, who moved here from Guadalajara, Mexico two years ago. She told me about her life such as what she likes to do, who her family is, and what she likes about the United States. The one thing that stuck out to me when talking with her was that her grandmother still lives in Guadalajara. I decided to write a vignette inspired by her and her grandmother.

## Struggles:

When deciding how I wanted to write my vignette, I had a hard time finding a way to make the story focus on Natalia leaving her grandmother, and her reuniting with her grandmother. I struggled with how to time jump from past, present, and to future. Eventually I figured out the proper way to time jump in my vignette with transitions where it made sense and could be easily followed.

## Successes:

Once I had figured out how to properly structure my vignette, I was able to write my story quickly and with a lot of depth. I got feedback to add a few different details but otherwise my story had a good theme, good structure, and details. Between my rough draft and final draft, I did not have to change many things about the story.

## Outcome:

I believe that I was able to write a very well thought-out vignette that was inspired by what Natalia told me. I represented her in a way that can relate to others but still have a unique story. My visual vignette is on the next page.

## Vignette

Soft hands that smelled of baby powder caressed my face, instantly calming me. I looked up to the coco brown eyes staring right back at me. I looked into the face of an angel. Her dark hair turning gray at the roots, her smile as bright as it was the first day I saw her. I sat in my bed soaking up what would maybe be the last time I saw my grandmother. Tears shimmered in her eyes as we both realized that our lives were about to change. This was the last night she would sing me a song, and put me to bed. As she stood up to leave I grabbed her hand, clinging to the one person who understands me. She sits back down and waits until I fall asleep.

The next morning...

Tears run down my rosy cheeks as I look out the filthy window, while sitting on the squeakiest bus seat imaginable. My eyes blurred as I watched the colorful town I grew up in pull away. My mother stroked my hair, telling me that everything will be okay. I sat in that squeaky seat for roughly a 30 hour drive. My two older siblings sat in front of me playing meaningless games on their phones and texting the friends they would never see again. As I looked out the window, I saw my life changing.

The next day...

My feet stepped off the bus landing on gray pavement in a foreign place called Aurora, Colorado. I looked up to see gray filled skies and a breeze bringing goosebumps to my skin. My family waved down a small yellow car that drove us to a big brown house in a small but growing neighborhood. I walked in the house to find low ceilings and carpeted floors. I looked around trying to find something to remind me of home. But I couldn't. I had to accept that this was my new life.

Seven years later...

I hugged my mom and dad because the day has finally come. I hopped onto the bus, for what would be another 30 hour drive. Luckily, my seat did not squeak. I looked out the window to see my parents crying. My dad held my mother with such compassion. I will miss them, but I am doing what's right for me. In 30 hours, I will be reunited with the person that made me believe in myself. I laid my head back against the seat, and closed my eyes. I am ready for the rest of my life, in Mexico.

I dedicate this vignette to Natalia Munguea, my inspiration for this story.



# Life in Guadalajara

Abuelita

Natalia



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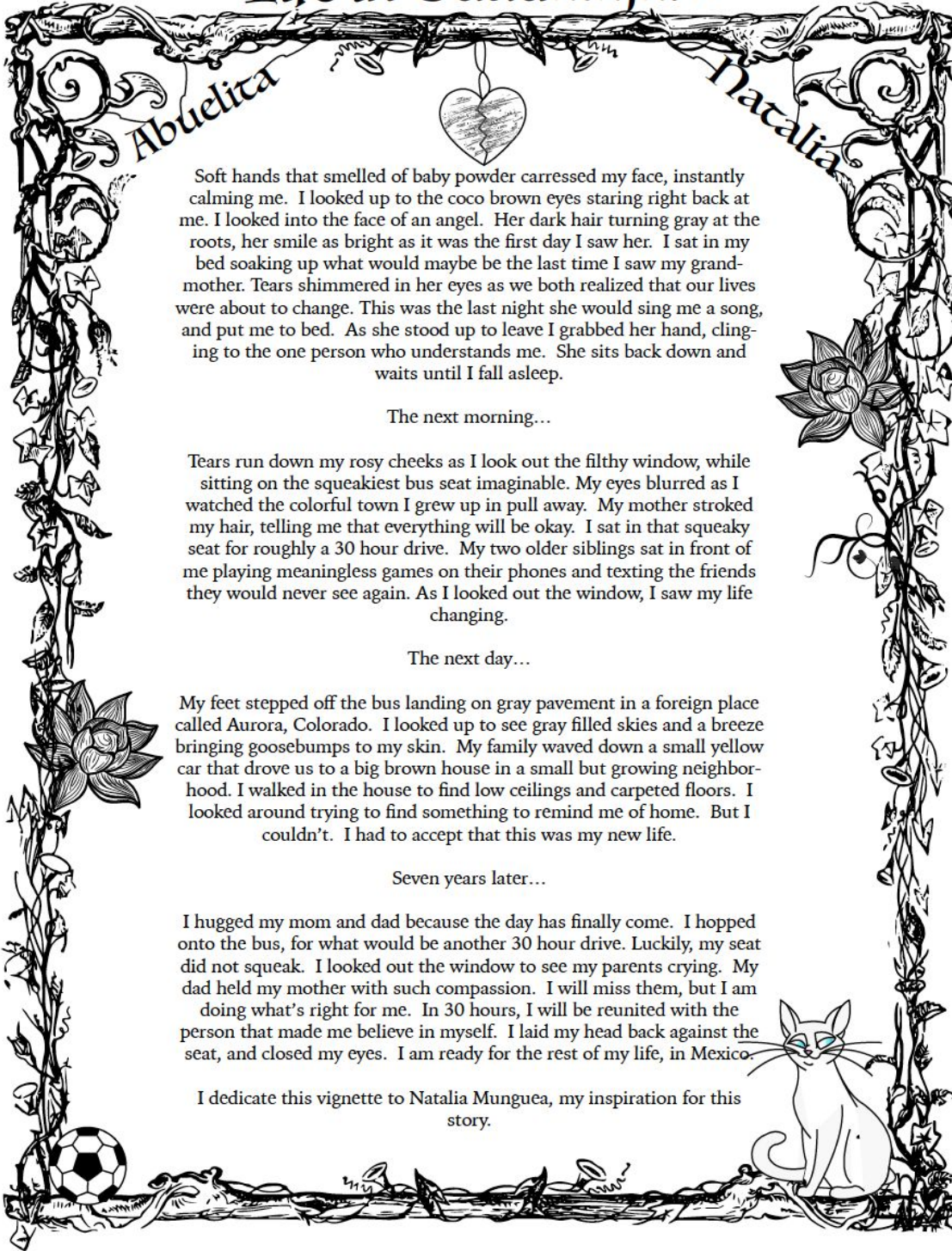
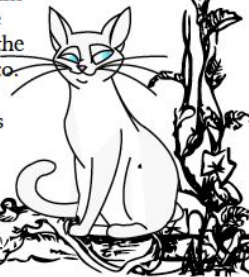
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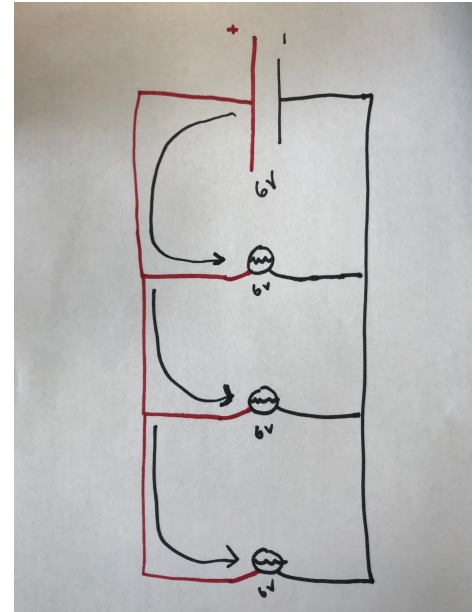


## Science

### Standard:

I can develop qualitative and quantitative understandings of charge, current, voltage, resistance, and the connections among them.

For my lantern I used two light bulbs. I placed the lights on two separate sides of my lantern. The battery was placed on the back of my lantern. The red wire is the positive charge and the black is the negative charge. I connected both light bulbs to my battery with red and black wires. I needed to twist them together to make sure that the charges can reach both light bulbs with equal power. This created a parallel circuit. The parallel circuit allows the charge to reach both lights.



### Struggles:

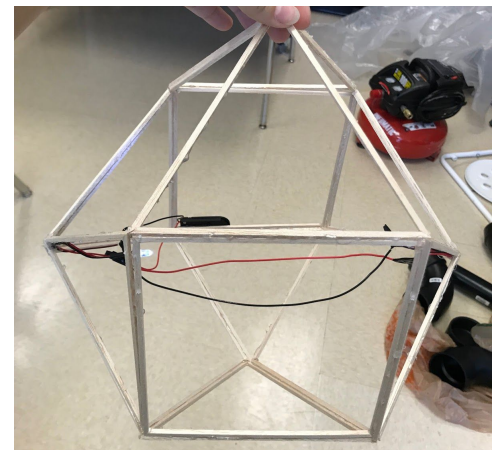
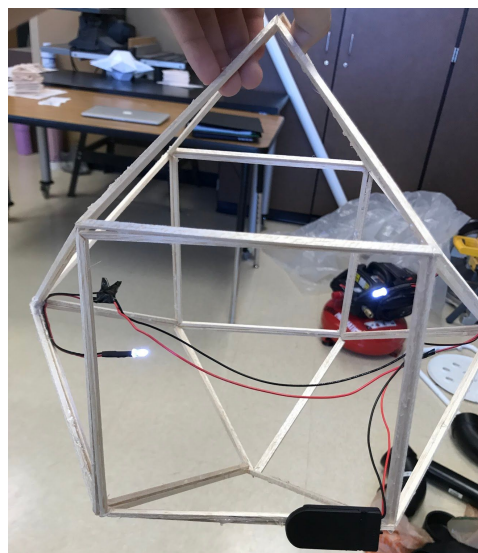
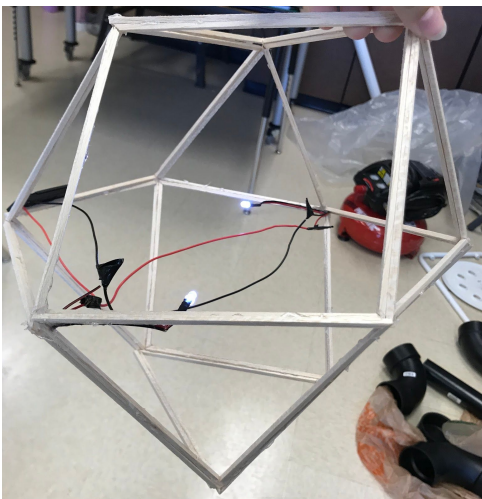
For this particular part of the lantern I did not have many struggles. I was able to understand how to configure how each wire should be placed and how they should work together.

### Successes:

When applying the electricity to my lantern, on the first try of turning it on, it worked perfectly. The wires were connected where they could easily light both lights at the same time.

### Outcome:

My lantern was successfully lit up with both of my lights. I used black and light blue tissue paper to cover my lantern and the lights were bright enough to shine through.





# Math

## Standard:

I will be able to solve problems with 1D, 2D, and 3D shapes, triangles, trigonometry, transformations and circles.

For the structure of the lantern, I chose to do a cuboctahedron, which consists of 6 squares and 8 equilateral triangles. At the start of building my lantern, I made a cuboctahedron 3D model out of paper. This helped me determine how many faces my lantern would have and the size I would need to build my lantern. Originally my model lantern was 3 inches long, so I scaled it by 4 inches. Each side of both the squares and equilateral triangles were all 6 inches long. My total surface area for my lantern was **340.72**.



## Struggle

I struggled with a few things during the building process of my lantern. When cutting the pieces for my shapes, some of my angles for the pieces to connect were not accurate. Two separate pieces would not fit perfectly together. I had to trim and figure out what the angle should have been so that I could successfully have all my pieces fit together. While building my lantern, I across one main struggle. I needed to glue the triangles at an angle to my squares so that it would form its points. This was difficult to determine because I needed to look at my small 3D model to see what the angle was. Once I figured out the correct angle, I was able to build my shape successfully.

## Outcome

The outcome of my lantern was good. My structure fit together very well and I was able to put tissue paper over the lantern to cover all of the balsa wood.



✓  
Name: Alexandre Hirschedt

Putting it all together...The Lantern Project

**T**ime to choose a polyhedron for your Lantern Project - Use the website below to search through many different polyhedron shapes. Once you have decided on the one you want, print out the net and fill in the name of the polyhedron below.

<http://www.korthalsaltes.com/>

Name of the polyhedron you chose Cuboctahedron

**N**ow that you have chosen your Polyhedron net for your lantern, you need to make some calculations to determine how to enlarge your figure.

What is the total number of faces of your polyhedron? 14

Your polyhedron is made up of one or more 2-dimensional polygons (such as a triangle, square, hexagon, etc.) You will need to find the angle measurements and side lengths of each of these polygons. Use the space below to record these measurements:

Name of Polygon 1 Square, Quadrilateral

Sum of interior angles of polygon 1  $360^\circ$

Measurement of each angle  $90^\circ$

(If polygon is regular, show calculation below. If not, carefully measure each angle)

Length of each side (list all lengths if they are not the same) 1.5 in

Name of Polygon 2 Equilateral Triangle

Sum of interior angles of polygon  $180^\circ$

Measurement of each angle  $60^\circ$

(If polygon is regular, show calculation below. If not, carefully measure each angle)



Length of each side (list all lengths if they are not the same) 1.5 in

Name: \_\_\_\_\_

Name of Polygon 3 \_\_\_\_\_ (if needed)

Sum of interior angles of polygon \_\_\_\_\_

**Measurement of each angle** \_\_\_\_\_

(If polygon is regular, show calculation below. If not, carefully measure each angle)

**Length of each side** (list all lengths if they are not the same) \_\_\_\_\_

\*\*\*\*\*

**N**ow it is time to see what your polyhedron will look like once it is completely constructed. Go ahead and fold your net.

Diameter of your polyhedron 3 in (measure best you can from one side to the other)

*Based on this diameter and the shape of your polyhedron, determine the scale factor for your enlarged polyhedron. Remember that there will need to be enough space for a light bulb to fit inside.*

$$3 \times 4 = 12$$

**Scale factor for lantern** 4 in



Before moving on you must get your scale factor approved by your teacher.

Teacher initials gw

**ENLARGEMENT:**

**W**ith your new measurements and your scale factor, you can begin to enlarge your polygons to provide you with a template to use in construction. Use blank paper to precisely construct each polygon to the enlarged size. You will **turn** these constructions in before you begin building.

Name: \_\_\_\_\_

### Surface Area Calculations

One more step before we begin our lamp construction. We need to calculate the total surface area of our Polyhedron in order to estimate the tissue paper we will need for the construction. Use this worksheet to calculate the surface area of each **enlarged** polygon in your polyhedron. Total up your values on the bottom of the back page and give your teacher these results.

Name of Polygon #1 Equilateral Triangle

Formula for calculating the surface area of this polygon  $A = \frac{\sqrt{3}}{4} a^2$

Calculations:

$\frac{\sqrt{3}}{4} \cdot 6^2$        $0.433 \cdot 36 = 15.59$

$\frac{\sqrt{3}}{4} = 0.433$        $6^2 = 36$

How many faces of this polygon do you have in the polyhedron? 8

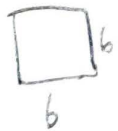
Total surface area of polygon #1:

15.59 x 8 = 124.72 in<sup>2</sup>  
surface area of polygon      # of faces      total surface area of polygon #1

Name of Polygon #2 Quadrilateral, square

Formula for calculating the surface area of this shape  $b \cdot h$

Calculations:



$b \cdot b = 36$

How many faces of this polygon do you have in the polyhedron? 6

Total surface area of polygon #2:

36 x 6 = 216 in<sup>2</sup>  
surface area of polygon      # of faces      total surface area of polygon #2

Name: \_\_\_\_\_

Name of Polygon #3 \_\_\_\_\_ (if needed)

Formula for calculating the surface area of this polygon \_\_\_\_\_

Calculations:

How many faces of this polygon do you have in the polyhedron? \_\_\_\_\_

Total surface area of polygon #3 (if needed):

$$\frac{\text{surface area of polygon}}{\text{surface area of polygon}} \times \frac{\text{\# of faces}}{\text{\# of faces}} = \frac{\text{total surface area of polygon \#3}}{\text{total surface area of polygon \#3}}$$

---

**TOTAL**

$$\frac{124.72}{\text{total surface area of \#1}} + \frac{216}{\text{total surface area of \#2}} + \frac{n/a}{\text{total surface area of \#3}} =$$

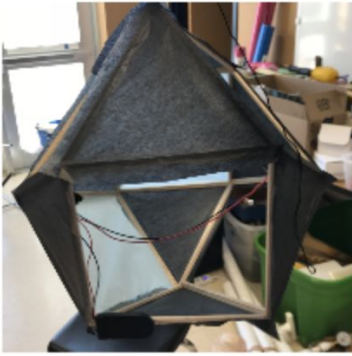
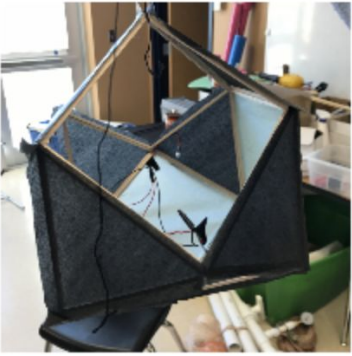
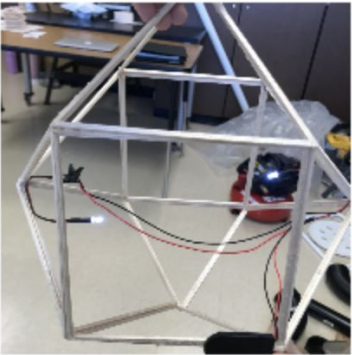
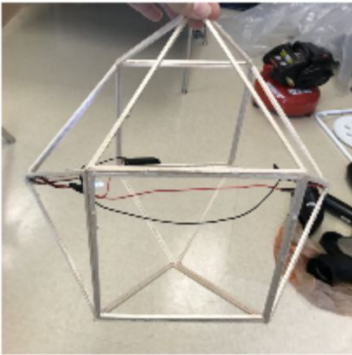
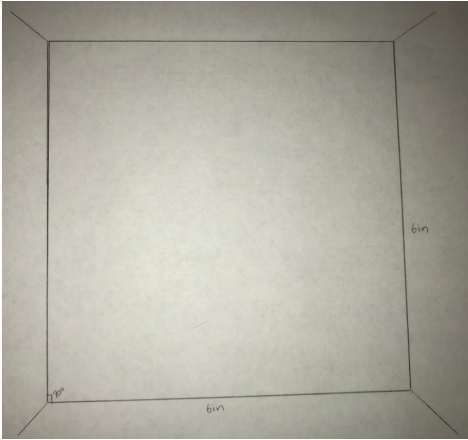
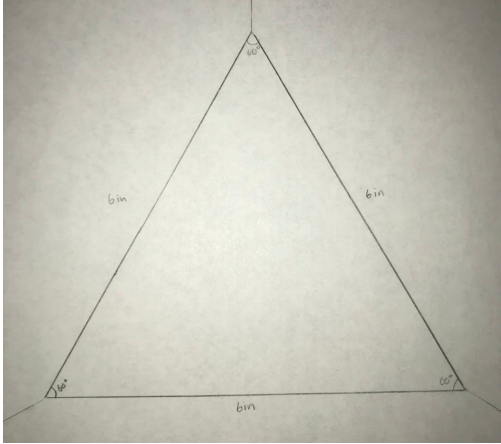
Total surface area 340.72 in <sup>2</sup>
--

**C**ongratulations! You are ready to begin building your lantern! Please turn in this packet and all extra drawings/calculations to receive your supplies.

*gw*



# Process of Lantern Construction



# Humanities

## Standard:

The interconnected nature of the world, its people and places. Research, formulate positions, and engage in appropriate civic participation to address local, state, or national issues or policies.

For humanities we researched a lot about culture and the differences between Mexican and American cultures. The main piece of Humanities was having a debate between whether America should create more immigration reform, or if immigration reform is fine currently. I was on the side of being against new reform. For the debate I researched various things such as the wall, current laws, and why people would want or not want new reform.

## Struggle:

My main struggle in humanities was finding information for the debate the had to do with being against new reform. I had to dig really deep and rework the phrases I would search. It gave me a good perspective on how precise and specific that you need to be when researching because it can narrow down what you really want to know.

## Success:

For the debate, I was able to debate successfully and add valuable information to the conversation that hopefully influenced others opinions and thoughts about the topic.

## Outcome:

This was a very enlightening experience because I was able to learn a lot more about immigration today and some of the laws we have. My opinion did not change much from this activity but I was able to learn a lot more that I had before.





# Guadalajara, México

