2020-2021 City Model Slideshow

School/Organization: **Central Jersey College Prep Charter School**

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Future City Team Name: **Starling City**

Section I

CITY DESIGN

Residential Zone

What is important for the judges to know about your residential zone?:

It is completely optimized for living whether it be from food to water to oxygen or even gravity, we have it figured out. We get water from a main source of the ice from the crater. We also get shipments. We can eat our veggies from our greenhouse! Our oxygen is airtight and uses oxygen from plants! We also filter the air and pump it back in. Our gravity is solved by our altitude being low, magnetic boots that stimulate gravity and the fact we are almost perfectly sealed!

Commercial Zone

What is important for the judges to know about your commercial zone?:

Our farm is one of the many examples of our commercial zones. In this section, we sell fresh and amazing crops for our citizens to eat. These veggies are irrigated using the water we get from the ice in the crater. You can see the tower having pipes down into each and every crop for optimal growth and distribution

Industrial Zone

What is important for the judges to know about your industrial zone?:

We have mining factories that provide iron, helium-3, ice and more to our civilians! It provides thousands of jobs and resources to make our city prosper in both wealth and health.

Infrastructure Example 1

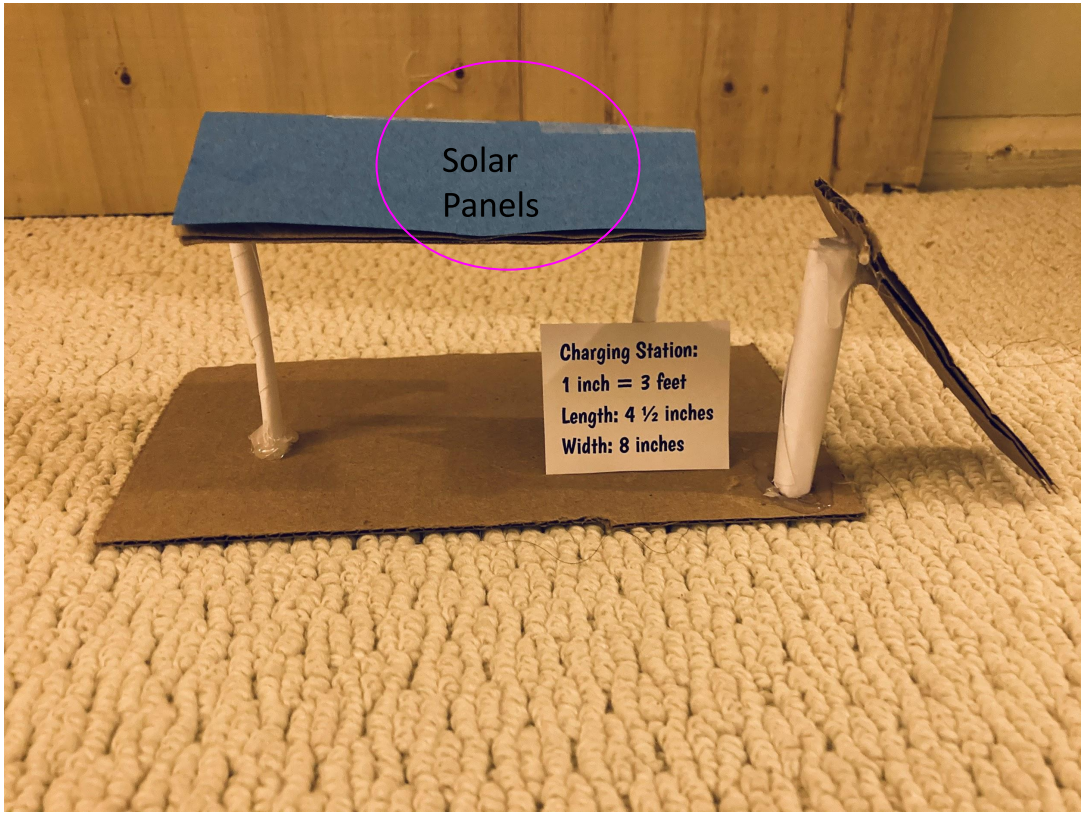
What type(s) of infrastructure are shown here (water, power, utilities, etc.)?:

Oxygen release is shown here

How are these related to the realities/challenges of living on the Moon?:

Due to lack of oxygen, we resort to closing in the vacuum of space, recycling air through filtration and also using plants! Plants give out oxygen and we use this to our advantage.

Infrastructure Example 2



What type(s) of infrastructure are shown here (water, power, utilities, etc.)?:

We have mining stations for one source of energy. We also gave a greenhouse for another. We have thousands of solar panels throughout the city. We also have electric power plants

How are these related to the realities/challenges of living on the Moon?:

These are all energy sources that are less common on earth due to circumstances. Up here, it is alot harder to burn fuels so instead we resort to green energy.

City Services Example 1

What type(s) of city services are shown here (health, education, etc.)?:

Education

What do you want the judges to know about your city's operations?:

Our city's education system is about the same as the one of Earth which is kindergarten through twelfth grade and college. Except when talking about our geography and history, we tend to explain all about our city. We teach the kids about Earth and their accomplishments as well in order for the kids to improve in many aspects.

City Services Example 2

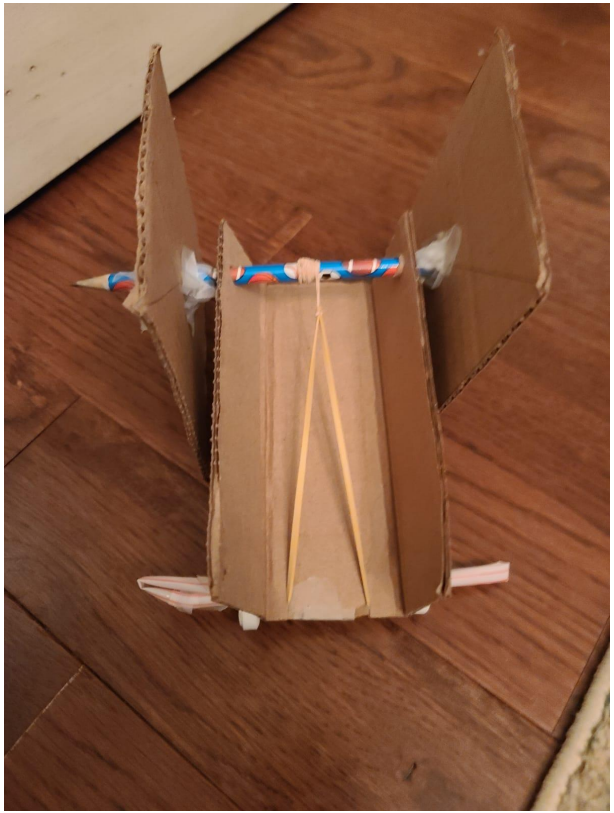
What type(s) of city services are shown here (health, education, etc.)?:

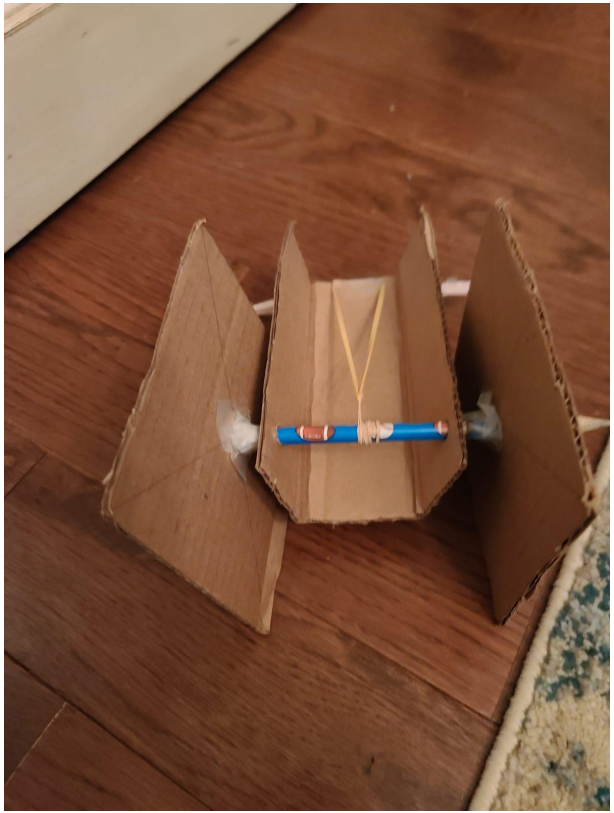
Grocery Store

What do you want the judges to know about your city's operations?:

The grocery store is the main place where our residents get their food. A majority of our food in the grocery store comes from our farm which is located in the second layer of the city.

Transportation Example 1





What type(s) of transportation systems are shown here?:

The Chariot

What do you want the judges to know about your transportation system(s)?:

The Chariot is a device used to transport, people and material around the colony. It uses a rubberized polymer to collect friction from the surface to move. This way it does not use electricity, nor does it use gas. This is a way to stay green and still have a good method of transportation.

Transportation Example 2

What type(s) of transportation systems are shown here?:

Walking and biking

What do you want the judges to know about your transportation system(s)?:

Another type of transportation includes walking and biking. We try our best to keep our city a healthy and safe place by reducing the amount of air pollution. Walking and biking gives our residents time to relax and also exercise.

Living on the Moon (Resource #1) Example 1

Identify the Moon resource shown here:

What is important for the judges to know about this resource within your city?:

The moon soil is a important part of our farm as it is how we grow our food and keep our plants stable.

Living on the Moon (Resource #1) Example 2

What is important for the judges to know about this element of your model?:

The greenhouse uses moon soil in order to grow plants which helps form and keep our terraformed atmosphere.

Living on the Moon (Resource #2) Example 1

Identify the Moon resource shown here:

What is important for the judges to know about this resource within your city?:

The ice that is mined is then sent here to be melted, filtered, and sent throughout the colony.

Living on the Moon (Resource #2) Example 2

What is important for the judges to know about this element of your model?:

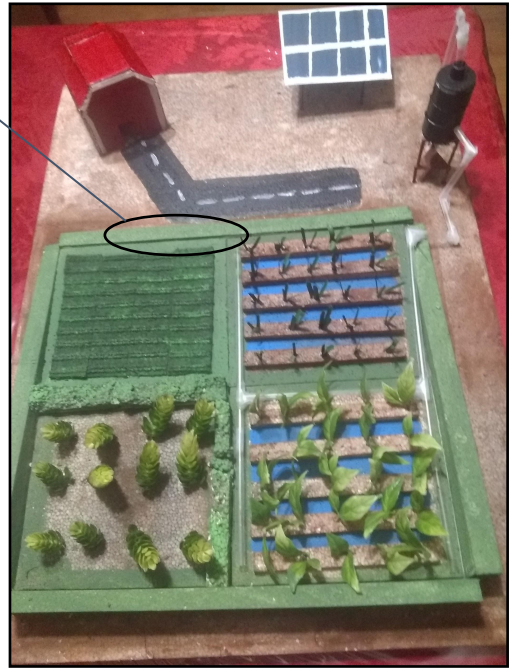
The water that comes from the ice is then sent out to places like the farm so the crops can then grow.

Section II

BUILD IT: QUALITY, SCALE, AND MATERIALS

Innovative Material & Use Example 1

Floral foam



Choose one recycled or reused item and describe how you used it creatively in your model:

Floral foam was used in the grass part of the greenhouse. It served as a border for the plants and a very visually pleasing but creative model component.

Innovative Material & Use Example 2

Choose another recycled or reused item and describe how you used it creatively in your model:

A sink dish bowl was used as a dome for the city. It is covered with tape to give it a shiny glossy look. This uses and everyday kitchen household object to display a dome.

Innovative Material & Use Example 3

Choose another recycled or reused item and describe how you used it creatively in your model:

The use of real plants for the greenhouse gives a more realistic look. The use of seran wrap to make it look like an actual greenhouse is a great idea.

Example of Scale

Scale used in model (e.g., 1”= 10’, or 1”=22’):

Structure 1

What type of structure is this?:
This is a charging station for vehicles

What size is the structure on the model?: 4 ½ inches by 8 inches

What size would this structure be in real life?:
13.5 feet long by 24 feet

Structure 2

What type of structure is this?:
A mining station

What size is the structure on the model?: 8 in by 11 in

What size would this structure be in real life?:
88 feet by 32 feet

Moving Part

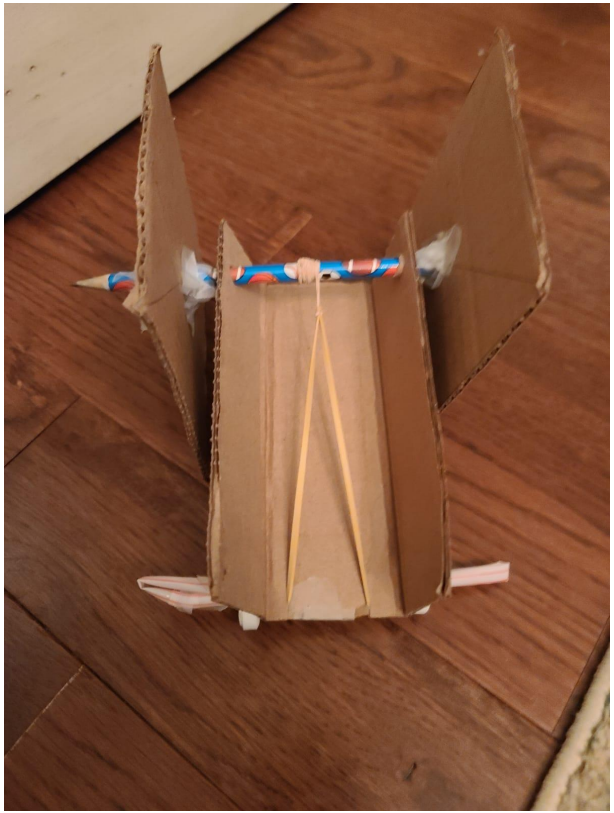
URL link to team's moving part video:

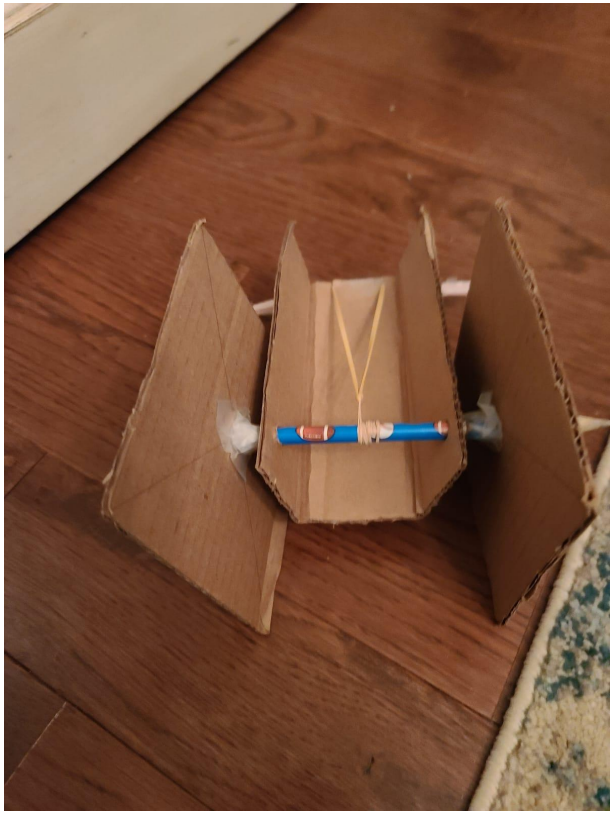
https://kapwi.ng/c/6xZczdIV

Section III

JUDGE ASSESSMENT OF MODEL

Futuristic Technology Example 1





What is important for the judges to know about this example of technology?:

The Chariot is a device used to transport, people and material around the colony. It uses a rubberized polymer to collect friction from the surface to move. This way it does not use electricity, nor does it use gas. This is a way to stay green and still have a good method of transportation.

Futuristic Technology Example 2

What is important for the judges to know about this example of technology?:

There is a reflective material placed on the inside that can be made to look like it is day and night based on Earth time. This is can make the city feel more relaxing and more Earth-like.