



2020-2021 City Model Slideshow

School/Organization: Peirce Middle School

Educator Name: Christopher Beatty

Future City Team Name: Soteria

Delete all PURPLE text before submitting the slideshow for judging. Keep text that is black.

Deliverable Details

- This slideshow is your chance to present your model. Whether your team created a single model or multiple segments, here is where you show off the future city you designed to the judges.
- Choose photos of the various segment(s) that best show the requested content.
- Do not change the size of text boxes in this template. All written text must fit within the boxes and *cannot* be smaller than size 14 in Calibri (or equivalent) font.
- When finished, save the slideshow as a PDF and upload to the Online Portal at FutureCity.org.

Section I
CITY DESIGN

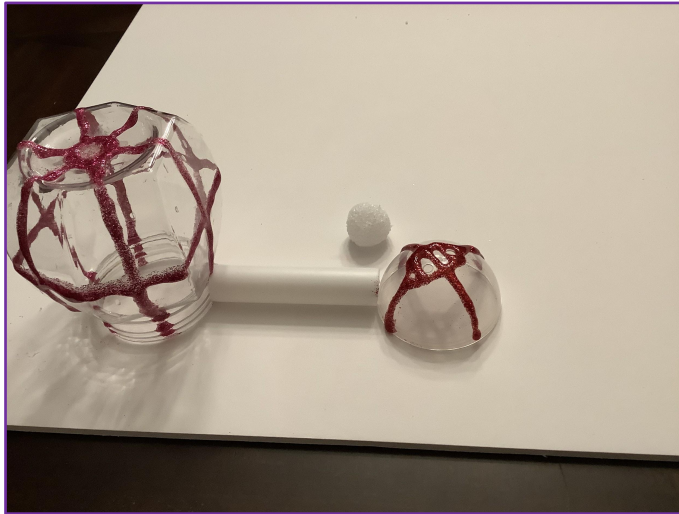
Residential Zone

Insert one photograph to showcase an example of your city's residential zone.

This example can be a mixed-use zone, as long as it features residential zoning.

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

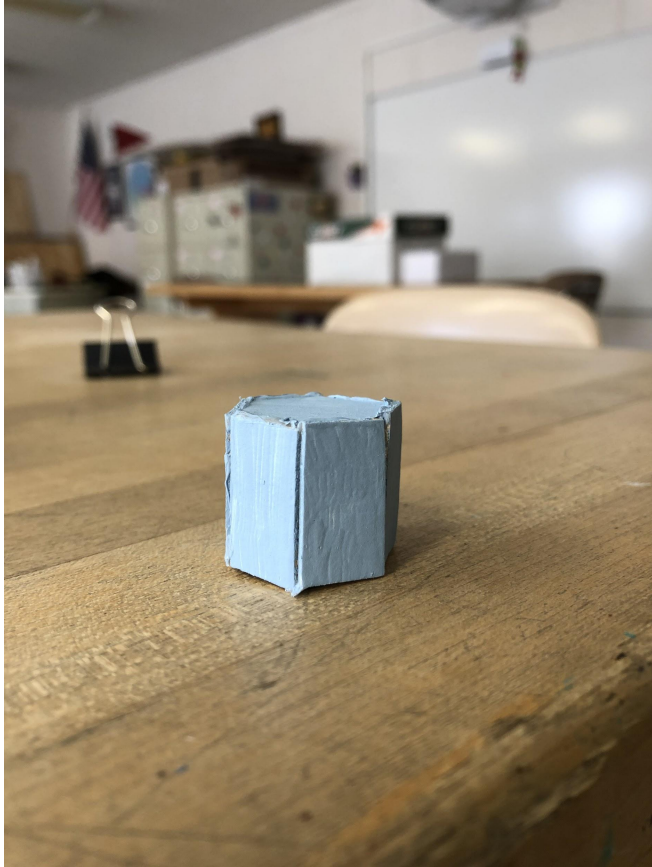
Commercial Zone



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

The commercial zone of SOTERIA is a cyberpunk-themed area, with very vibrant glass domes. The material that the main body of the domes are made of is a plexiglass-polymer compound made from our industrial district. The metallic-colored framework supporting the domes are made of light-weight, high-quality titanium extracted from some of the mineral extraction sites part of our industrial area. The commercial district is the downtown of the city, right next to the residential district. The tubes connecting the shops and malls are made of premium-grade polymer-titanium compound. There is a two-way walkway with all the necessary resources to life (water, oxygen, etc) underneath the walkway. Pumps underneath each of the domes provide the specific dome with the necessities for life.

Industrial Zone



scale: 1-inch=50 feet

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

I have designed a hexagonal shaped building that represents the industrial buildings. There will be multiple of these buildings located in the industrial area of our city. They are important for the production of clean air and materials for the city.

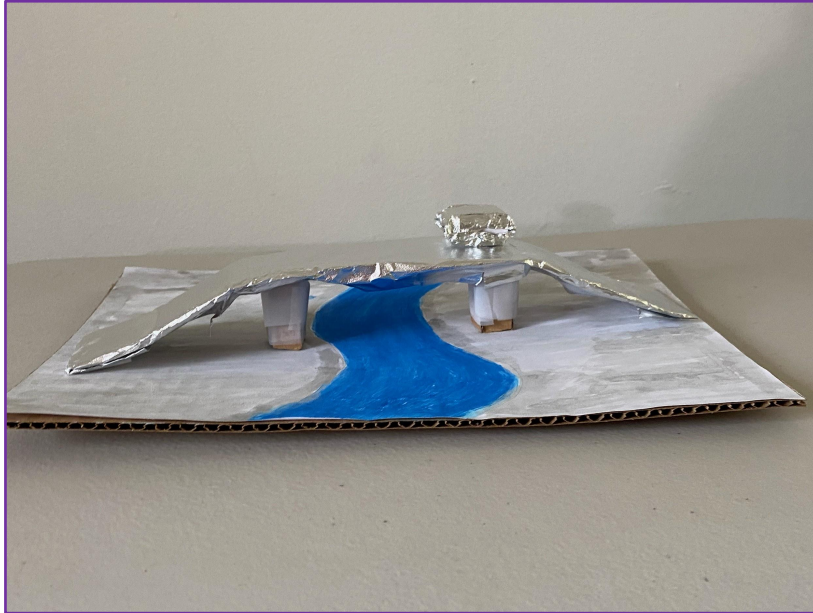
Infrastructure Example 1

Insert one photograph to showcase an example of your city's infrastructure.

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

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

Infrastructure Example 2



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

A bridge is shown here over an artificial river. The river was created to make life on the Moon a bit more like Earth.

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

This is related to the challenges of living on the moon because it helps transport essential supplies to parts of the city, which are not as easily available.

City Services Example 1



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

This is the Soteria hospital and primary care.

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

The building on the right is the main healthcare unit. The glass balls on top of the building out the long term care units. This is so our patients can enjoy the color scenery around them while staying in the hospital. The building on the left is the primary and children's care building.

City Services Example 2



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

The service shown in this picture is a school. The school is for both adults and children, and offers an educational experience like no other. Maglev trains transport pupils to and from the school. All the regular subjects are offered at Soteria's school, as well as a few new ones that aren't usually choices, such as astrology, meteorology, and more.

Transportation Example 1

Insert a photograph to showcase an example of your city's transportation system.

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

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

Transportation Example 2

Insert another photograph to showcase an examples of your city's transportation system.

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

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

Living on the Moon (Resource #1)

Example 1



Identify the Moon resource shown here:

Titanium Ore

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

Titanium ore is a crucial material to our city that is used as a catalyst in the process of photosynthesis. The photoanode glass on the domes mimic the process of photosynthesis that the plants use in our lunar farming. Titanium ore is the material used to initiate this process. This special glass is found on every dome in our city and is used to create energy.

Living on the Moon (Resource #1)

Example 2

Insert another photograph of your model that illustrates your city's use of the first Moon resource.

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

Living on the Moon (Resource #2)

Example 1



Identify the Moon resource shown here:

Platinum

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

Platinum is one of the materials used in our air purification systems. Every dome in our city has a large air purifier to keep our citizens safe. It is especially important when used in the hospital, as shown.

Living on the Moon (Resource #2)

Example 2

Insert another photograph of your model that illustrates your city's use of the second Moon resource.

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

Section II

BUILD IT: QUALITY, SCALE, AND MATERIALS

Innovative Material & Use Example 1

Insert one photograph to illustrate how you used or creatively modified this item within your model.

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

Innovative Material & Use Example 2

Insert one photograph to illustrate how you used or creatively modified this item within your model.

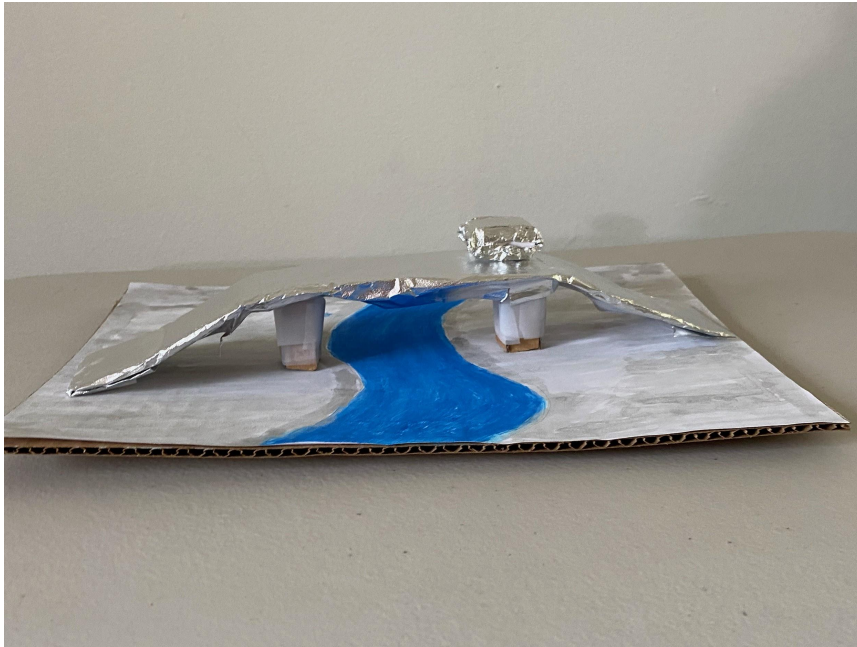
Choose another recycled or reused item and describe how you used it creatively in your model:

Innovative Material & Use Example 3

Insert one photograph to illustrate how you used or creatively modified this item within your model.

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

Example of Scale



Scale used in model (e.g., 1"= 10', or 1"=22'): 1" = 15'

Structure 1

What type of structure is this?:

This structure is a bridge over an artificial river to help with transportation of goods and to help make life more like it is on Earth.

What size is the structure on the model?: 10 inches long and 2 inches wide.

What size would this structure be in real life?: 150 feet long and 30 feet wide.

Structure 2

What type of structure is this?:

A futuristic cargo truck that is used to transport goods around the city.

What size is the structure on the model?: 1 inch long by 1 inch wide.

What size would this structure be in real life?: 15 feet long by 15 feet wide.

Moving Part

- Insert a link to a video of your moving part.
- Make sure your video is posted on a publicly available platform for judges to access (such as YouTube).
- Video cannot exceed 1 minute.
- Be sure to mention your city/team name.
- Show the moving part in action.

• In the video, share what role the part plays within your city and how you built it.

URL link to team's moving part video:

Section III

JUDGE ASSESSMENT OF MODEL

Futuristic Technology Example 1



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

This is an example of our air purification systems. They use Platinum in the process of cleaning the contaminants out of the air. Operating like a human lung, our air purification systems 'breathe' in the air, and push it out with the correct chemical composition for our citizens to breathe. This is especially important in a hospital, as shown to the right.

Futuristic Technology Example 2



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

This is an example of the multifunctional domes that protect our city. They serve as a photoanode to generate energy for our city through the process of artificial photosynthesis. They also protect against incoming meteorites. Lastly, they are a shield against solar wind storms that could bring contaminants into the atmosphere. These domes are the most innovative, sustainable, and futuristic examples of technology in Soteria.