



2021-2022 City Model Slideshow

School/Organization: **Great Valley Middle School**

Educator Name: **Mrs. Kelly Eidell**

Future City Team Name: **Hreinborg**

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

Deliverable Details/Requirements

- 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. Where noted, you can put one (1) or two (2) photographs of your team's work. The photos can take up as much space on the slide as you like, as long as they do not cover the slide title (upper left) or the text block descriptions on the right of the slide. More than two photographs are not permitted per slide. Collage images with more than two photos are not permitted.
- 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 Educator Dashboard at FutureCity.org.
- Review the 2021-2022 Program Handbook for a full list of rules and requirements.

Section I
CITY DESIGN

Insert either one or two photographs to introduce your city to the judges. This can be an overall/birds-eye view or any element of your model that you think gives a sense of your city. No text should be written on this slide.

Residential Zone



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

All the residents of Hreinborg live in apartments that conserve space and ensure every citizen is provided with a comfortable experience.

Commercial Zone



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

The commercial zone gives the citizens a sense of satisfaction and entertainment. This area is primarily filled with parks, party clubs, amusement parks, restaurants, and other consumer and entertainment activities.

Industrial Zone



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

This zone is split into manufacturing and storage so that our city has a surplus of supplying and distributing for every citizen's comfort.

Infrastructure Example 1



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

The main infrastructure shown here is the main transportation system in our city, the monorail.

How are these related to the realities/challenges of a Waste-Free City?:

The monorail is suspended on electromagnets and is powered by magnetic fields (from geothermal energy). This eliminates the carbon emissions produced in the city.

Infrastructure Example 2



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

This is the main central tower and the main support pillar that holds up the dome of the city.

How are these related to the realities/challenges of a Waste-Free City?:

The central tower is where the storage elevator is, which carries goods up from the storage section to any of the other desired sections. This is related to the challenges of a Waste Free City because it incorporates an elevator system into the supply distribution, which saves us from wasting electricity on multiple trips.

City Services Example 1



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

Education is the service shown in the picture here

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

All four age groups of school (elementary, middle, high, college) will be in the same building, but it will be the same size as four schools stacked on each other.

City Services Example 2



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

Health

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

We have free healthcare, and our main genetically engineered product that is used in yearly medical checkups is the Hemocapsule. This capsule is injected into the human blood stream and it checks all organs in the body for possible anomalies, infections, or diseases.

Transportation Example 1



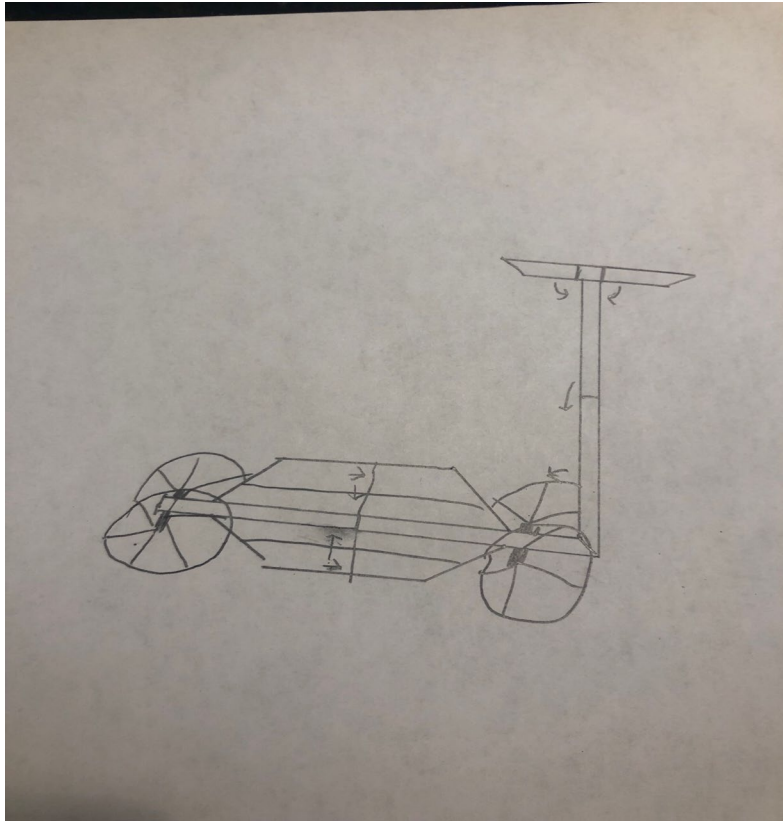
What type(s) of transportation systems are shown here?:

Monorail

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

The monorail is spherical and uses gyroscope technology to prevent dizziness.

Transportation Example 2



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

Scooter

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

This personal scooter that is given to every citizen is a fast, easy way of transportation and it folds up for convenient storage.

Principles of a Circular Economy in Action - Example 1



What is important for the judges to know about this element of your circular economy solution?:

Using wastes and water, the agricultural section of our city makes sure even when there is waste, it somehow is still useful and contributes to a waste free economy.

Principles of a Circular Economy in Action - Example 2



What is important for the judges to know about this element of your circular economy solution?:

This rocket collects and drills asteroids from space that produce graphene to improve the structural integrity of the city.

Principles of a Circular Economy in Action - Example 3



What is important for the judges to know about this element of your circular economy solution?:

The industrial section of Hreinborg contributes to a circular economy because we manufacture our own resources and we recycle the unused resources in this section.

Section II

BUILD IT: QUALITY, SCALE, AND MATERIALS

Innovative Material & Use Example 1



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

In this building, we used a milk carton and cut off the top, flipped it over, and painted it grey to make our services sector, which has all our governmental services.

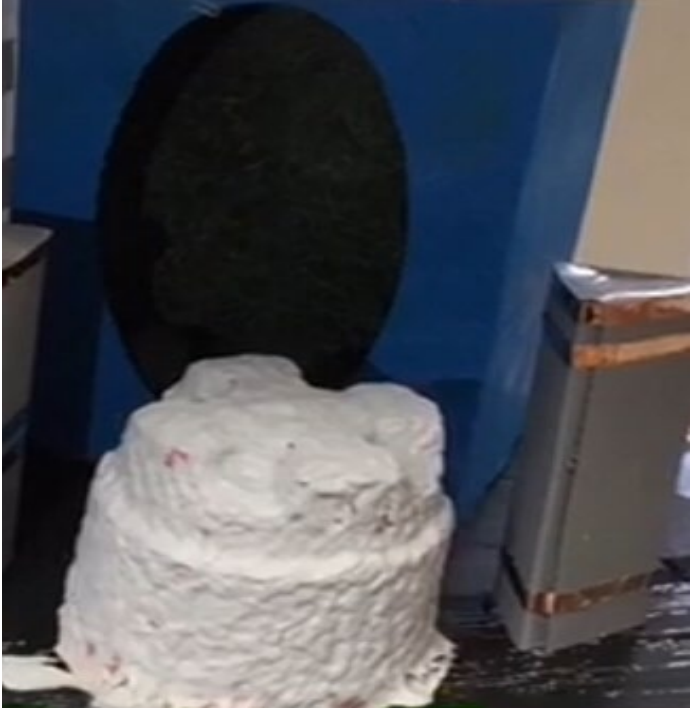
Innovative Material & Use Example 2



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

We used toilet paper rolls that we decorated and hot glued together to make our shopping complex, from our recreational sector.

Innovative Material & Use Example 3



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

We used an empty tissue box, painted it, and filled it with small trees and moss to show how our housing sector has an area in the middle of all the apartments full of plants, which gives all the people an easy source of oxygen.

Example of Scale



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

Structure 1

What type of structure is this?:

Apartment building (blue tissue box)

What size is the structure on the model?:

4.75 X 9.5 X 4.25 inches

What size would this structure be in real life?:

1 in= 1862 ft

8844.5 X 17689 X 7913.5 feet

Structure 2

What type of structure is this?:

Agricultural building

What size is the structure on the model?:

4.5 X 27 X 1 inches

What size would this structure be in real life?:

1 in = 1231 feet

5539.5 X 33237 X 1231 feet

Moving Part

- **Team Educators:** Don't forget to include the link to your team's moving part video in your Educator Dashboard submission section.
- **Judges:** Watch and review the moving part video from this team in your Judge Dashboard.
- <https://www.youtube.com/watch?v=VTjtjm8Z1DA>

Video Details:

- The video must be posted as to be publicly available for judges to access on either YouTube or Vimeo.
- Video cannot exceed 1 minute.
- Teams need to mention their city/team name in the video.
- Teams must show the moving part in action.
- In the video, share what role the part plays within the city and how your team built it.

Section III

JUDGE ASSESSMENT OF MODEL

Futuristic Technology Example 1



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

The storage spheres that rest on the cylindrical storage buildings are used to distribute the goods among all floors. This is important because it decreases all the time to load and unload the storage one by one, and instead when the spheres have no remaining storage, they will be taken to the service elevator that takes and distributes the goods to the desired floor.

Futuristic Technology Example 2



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

The agricultural section of our city is shown here, and all the plants are watered and fertilized by recycled and filtered human waste.