



# City Model Rubric

0	1	2	3	4	5
<b>No Points</b> Requirements missing.	<b>Poor</b> Poor-fair quality. Fulfills at least 20% of requirements.	<b>Fair</b> Fair-average quality. Fulfills at least 50% of requirements.	<b>Good</b> Average quality. Fulfills at least 85% of requirements.	<b>Very Good</b> Above average quality. Fulfills 95% of requirements.	<b>Excellent</b> Excellent quality. Fulfills 100% of requirements with additional distinctive features.

I. City Design (25 Points)	0	1	2	3	4	5
<b>1. City zoning</b> <ul style="list-style-type: none"> <li>Includes the three primary zones: residential, commercial, and industrial</li> </ul>	No evidence of zoning. No variety of structures.	Zoning unclear. Little variety of structures. Only one type of zone presented.	Somewhat clear zones. Small variety of structures. Only two types of zones presented.	Fairly clear zones, some variety of structures. At least three zones.	Clear zones and some variety of structures. Could be more comprehensive. At least three zones.	Clear and thorough zones. Excellent variety of recognizable structures. At least three zones.
<b>2. City infrastructure</b> <ul style="list-style-type: none"> <li>Could include water, power, utilities, etc.</li> <li>Relevant to the challenge of a waste-free future.</li> </ul>	No infrastructure examples.	Poor examples. Unrelated to a waste-free future.	Some examples. Does not address needs of a waste-free future.	Fairly clear examples. Not strongly related to a waste-free future.	Clear examples. Related to a waste-free future.	Clear and thorough examples. Deeply related to a waste-free future.
<b>3. City services</b> <ul style="list-style-type: none"> <li>Could include healthcare, education, etc.</li> <li>Essential to city operations</li> </ul>	No city service examples.	Poor examples of services. Unrelated to city operations.	Some examples of services. Barely related to city operations.	Fairly clear examples of services. Slightly related to city operations.	Clear examples of services. Moderately related to city operations.	Clear and thorough examples of services. Essential to city operations.
<b>4. Transportation system</b> <ul style="list-style-type: none"> <li>Variety of transportation modes</li> <li>Transportation system(s) addresses the needs of the city and its residents</li> </ul>	No transportation system.	Poor description of one mode of transportation. Does not address the transportation needs of the city.	Fair description of one or two modes. Overall system does not meet the needs of city.	Good description of one or two modes of transportation. Overall system meets most needs of the city.	Very good description of at least two modes of transportation. System addresses needs of city and its residents but could be more thorough.	Excellent description of two or more modes of transportation. System fully and thoroughly addresses needs of city and its residents.
<b>5. Illustrates circular economy solution:</b> <ul style="list-style-type: none"> <li>Designs out waste and pollution</li> <li>Keeps products and materials in use</li> <li>Regenerates natural systems</li> </ul>	No illustration of circular economy principles.	Underdeveloped illustration of circular economy principles. And/or not all three principles are addressed.	Some illustration of circular economy principles. And/or not all three principles are addressed.	Fairly clear illustration of circular economy principles.	Clear illustration of circular economy principles.	Clear and thorough illustration of circular economy principles.

Appendix:  
Deliverables  
City Model



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Appendix:  
Deliverables  
City Model

<b>II. Build It: Quality, Scale, &amp; Materials (20 Points)</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>6. Innovative construction</b> <ul style="list-style-type: none"> <li>Variety of materials</li> <li>Imaginative, unusual, or noteworthy materials</li> <li>Creative modifications of recycled materials</li> </ul>	No creativity or innovation. No recycled/repurposed materials.	Very little creativity and modification of materials. Very little variety of materials. Many materials are purchased.	Fairly creative modifications. Some variety of materials, but could be improved. Few recycled/repurposed materials.	Good creativity shown via modified materials. Good variety of materials. Features recycled/repurposed materials.	Very good creativity. Very good variety of materials that are creatively modified. Many materials are recycled/repurposed.	Excellent creativity. Wide variety of materials that are creatively modified. Few purchased items. Most materials are recycled/repurposed.
<b>7. Appearance</b> <ul style="list-style-type: none"> <li>Use of color, graphics, shapes, etc.</li> <li>Realistic elements (flora, fauna, landscapes)</li> <li>Age appropriate for 6th, 7th, 8th grades</li> </ul>	No aesthetics.	Poor aesthetics.	Fair aesthetics. Age appropriate.	Good aesthetics. Age appropriate.	Very good aesthetics that enhance overall city feel. Age appropriate.	Excellent and realistic aesthetics that enhance the overall city feel. Age appropriate.
<b>8. Model scale</b> <ul style="list-style-type: none"> <li>Accurate demonstration of scale</li> </ul>	Scale not provided.	The scale calculations as provided are grossly inaccurate.	Choice of scale is fair. Only minor calculation errors, if any.	Good scale. Calculations are accurate and choice of scale is somewhat reasonable.	Very good scale. Calculations are accurate and examples demonstrate an appropriate scale.	Calculations are flawless and choice of scale is excellent.
<b>9. Moving part</b> <ul style="list-style-type: none"> <li>Related to design or function of city.</li> <li>Quality workmanship, durability</li> <li>Description of part</li> <li>Successful demonstration of movement.</li> </ul>	No moving part.	Moving part cosmetic; not related to city function. No description of how the team built the moving part.	Moving part not relevant to city function. Unclear or confusing description of how the part was built.	Moving part somewhat related to city function. Good description of how the team built the moving part.	Moving part is related to city function. Very good description of how the team built the moving part.	Moving part is essential to city function. Excellent description of how the team built the moving part.

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III. Judge Assessment of Model (10 Points)	0	1	2	3	4	5
<b>10. Application of futuristic, advanced technologies</b> <ul style="list-style-type: none"> <li>Includes futuristic technologies</li> <li>Important to function of the city</li> </ul>	No futuristic examples.	Poor futuristic examples. Not important to the function of the city.	Fair futuristic examples. Somewhat related to function of the city.	Good futuristic examples. Related to function of the city.	Very good futuristic examples. Important to the function of the city.	Excellent futuristic examples. Very important to the function of the city.
<b>11. Overall innovation</b> <ul style="list-style-type: none"> <li>City design</li> <li>Addresses Waste-Free Future theme</li> </ul>	No innovation.	Innovation is poorly presented overall in model.	Innovation is presented fairly well overall in model.	Innovation is presented well overall in model.	Innovation is presented very well overall in model.	Innovation is presented excellently overall in model.