

City Model Rubric Score Sheet Guide

Criteria	0-2 (points)	3-4 (points)	5-6 (points)	7-8 (points)	9-10 (points)
Creativity					
1a. Futuristic Concept Description and Plausibility	A few futuristic designs are shown but not explained	Some futuristic designs are shown and some are vaguely plausible.	Several futuristic designs are shown and appear to be plausible	Most of the model displays plausible futuristic designs	Entire model is extremely well thought out, unique futuristic designs/concepts are shown and explained well
1b. Engineering Concepts Illustrated	Engineering concepts not shown	Some engineering concept designs are shown and some are plausible.	Several engineering concept designs are shown and appear to be plausible	Most of the model displays plausible engineering concept designs	Unique engineering concept designs are shown and explained well
1c. Building Material Types, Shapes, and Sizes	1 or 2 primary materials used for the buildings in the model; no variety in building size/shape	1 or 2 primary materials used for the buildings in the model; some variety in size/shape of buildings	3 to 4 primary materials used for the buildings in the model; some variety in size/shape of buildings	5 or more primary materials used for the buildings in the model; some variety in size/shape of buildings	5 or more primary materials used for the buildings in the model; unique blends for the size/shape of buildings
Accuracy & Scale					
2a. Model Scale (Vertical and Horizontal)	No scale provided or doesn't follow scale	A few buildings and layout follow scale but many items seem out of proportion	Some of the buildings and layout follow scale and proportion	Most of the buildings and layout follow scale and most appear in proportion to one another	All buildings and the layout follow scale precisely
Infrastructure					
3a. Illustration of Infrastructure (water, power, roads, etc)	Infrastructure not clearly shown	A few basic elements of infrastructure shown	Several basic elements of infrastructure with details included in some areas	Many of the basic elements of infrastructure shown and most include details	Very detailed elements of infrastructure are well thought out, displayed in a way to show realism
3b. Innovation and Practicability for Transportation	No transportation component	Component is a common idea for a currently used transportation system in place today worldwide with no futuristic concepts.	Component is a variation of a common transportation system	Component is a unique system, but not practical	Component is unique, detailed, and appears practical

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3c. Energy Efficient Infrastructure (water, power, roads, etc.)	Not efficient; no mention of alternative methods	Somewhat energy efficient but lacks mention of alternative methods	Somewhat energy efficient and describes alternative methods	Very energy efficient but traditional methods used	Energy efficient with a focus on renewable, alternative methods
Moving Part Component					
4a. Innovation and Durability	No moving part	One moving part; lacks durability	One durable, well designed moving part	One or more durable, innovative moving part(s)	More than one extremely innovative, durable moving parts
4b. Relevance to Design and Function of City	No moving part	Moving part is not related to the design/ function of the city	Related to the design / function but not an integral part	Related to the design/function and an integral part	Important integrated part of the city design/function and adds to city benefits
Model Quality					
5a. Quality Workmanship for 7th and 8th Graders	Appears incomplete and lacks durability	Appears complete but lacks finer details & durability	Appears complete and durable but could use more details	Complete, durable construction with some very good details	Extremely meticulous, complete, quality construction that provides excellent city details
Use of Recycled Materials					
6a. Amount of Recyclables in Model	No recycled materials used in building components	A few recycled materials used in building components	Several recycled materials used in building components	Many recycled materials used in building components	A large amount of recycled materials used in building components
6b. Creative Use	Recycled items used but original use is obvious	Some recycled items used in a few creative ways	Many of the recycled items are used in a creative way or large number of recycled items used with no creativity	Most of the recycled items are used in very unique ways	All recycled items are transformed in very unique ways