



City Essay Rubric

0 Poor Majority of requirements are missing.	1 Fair Fair quality. Fulfills less than 50% of requirements.	2 Satisfactory Average quality. Fulfills at least 75% of requirements.	3 Good Above average quality. Fulfills at least 85% of requirements.	4 Excellent Excellent quality. Fulfills all requirements with additional distinctive features.
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I. Introduce City and Define the Problem (24 Points)	0	1	2	3	4
1. City basics <ul style="list-style-type: none"> • Location • Natural features • Population 	No description of city.	Underdeveloped description of city.	Description of city is clear but general and lacks required details.	Clearly developed description of city.	Description is clear and thorough and supported with detailed information.
2. City life <ul style="list-style-type: none"> • Description of resident population • Daily life: recreation, jobs 	No description of residents or daily life.	Underdeveloped description of residents or daily life.	General description of residents and daily life but needs additional details.	Clearly developed description of city residents and daily life.	Description of both residents and daily life are clear and thorough and supported with detailed information.
3. Infrastructure and features <ul style="list-style-type: none"> • Could include housing, transportation, energy, agriculture, etc. • Incorporates advanced technology 	No description of city infrastructure.	Description of one type of city infrastructure. Technology is not advanced.	Clear description of at least two types of infrastructure. Technology is somewhat advanced.	Clear and thorough description of two types of infrastructure. Technology is advanced.	Clear and thorough description of more than two types of city infrastructure. Technology is very advanced.
4. City services <ul style="list-style-type: none"> • Could include education, healthcare, fire, public transport, etc. 	No description of city services.	Description of one type of city service.	Clear description of two city services.	Clear and thorough description of three city services.	Clear and thorough description of more than three services.
5. City innovation and futuristic elements	No description of innovations and futuristic elements.	Underdeveloped description. Seems like a random collection of information.	Describes innovations and futuristic elements but lacks details.	Clearly developed description of innovations and futuristic elements.	Description is clear and thorough and supported with details.
6. City prior to a circular economy <ul style="list-style-type: none"> • Impact of waste and pollution on residents, environment, and economy 	No description.	Underdeveloped description with limited details.	General description with sufficient details.	Clear description with a good level of detail.	Clear and thorough description with extensive details.

Appendix:
Deliverables
City Essay



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Appendix:
Deliverables
City Essay

II. Circular Economy Solution (24 Points)	0	1	2	3	4
7. Explains transition from a linear to a circular economy • Key design and planning decisions	No description of transition.	Underdeveloped description of transition and at least one decision.	General description of transition and at least one decision.	Clear description of transition and more than one decision.	Clear and thorough description of transition more than one decision.
8. Circular economy principle 1: describes how city designs out waste and pollution	No description.	Underdeveloped description. Not futuristic or innovative.	General description with sufficient details. Somewhat futuristic and innovative.	Clear description with a good level of detail. Futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.
9. Circular economy principle 2: describes how city keeps products and materials in use	No description.	Underdeveloped description. Not futuristic or innovative.	General description with sufficient details. Somewhat futuristic and innovative.	Clear description with a good level of detail. Futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.
10. Circular economy principle 3: describes how city regenerates natural systems	No description.	Underdeveloped description. Not futuristic or innovative.	General description with sufficient details. Somewhat futuristic and innovative.	Clear description with a good level of detail. Futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.
11. Risks, tradeoffs & compromises • Benefits, risks • Tradeoffs & compromises • Assessment & analysis of risks and tradeoffs	No discussion.	Underdeveloped description of at least one benefit, risk, or tradeoff. Lacks assessment and analysis.	General description of two benefits, risks, or tradeoffs. Assessment and analysis could be improved.	Clear description of two or more benefits, risks, or tradeoffs. Good assessment and analysis.	Clear and thorough description of two or more benefits, risks, or tradeoffs. Excellent assessment and analysis.
12. Engineering disciplines involved and roles of engineers	No description.	Underdeveloped description of one discipline or role.	General description of more than one discipline and/or role.	Clear description of at least two disciplines and roles.	Clear and thorough description of more than two disciplines and roles.

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III. Writing Skills (6 Points)	0	1	2	3	4
13. Organization & Writing	No clear structure. Simplistic skills and style.	Organization mostly makes sense but could be better. Good skills and style.	Essay has a logical order and details are presented effectively. Excellent skills and style.		
14. Grammar & Spelling	Many spelling and grammatical errors.	Some spelling and grammatical errors.	Minimal grammatical and spelling errors.		
15. Graphics, References, & Word Count <ul style="list-style-type: none"> If used, maximum of 4 graphics/illustrations (count does not include tables). At least three acceptable references. (Wikipedia is not an acceptable reference.) All words except the title and reference list are included in the 1,500-word count. Word count includes captions and words in graphics, illustrations, and tables. 	No references. Word count is missing or inaccurate. Exceeds maximum of 4 graphics or illustrations.	Fewer than three acceptable references and/or inaccurate word count.	At least three acceptable references. Accurate word count that is within limit. Does not exceed maximum of 4 graphics or illustrations.		

