



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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Appendix:
Deliverables
City Essay

I. Introduce City and Define the Problem (24 Points)	0	1	2	3	4
1. City location <ul style="list-style-type: none"> Geographic features and terrain of chosen location Benefits, risks, and tradeoffs of location 	No description of city.	Underdeveloped description of city.	Clear and developed description of city. Description is clear but general and lacks required details.	Clearly developed description of city.	Description is clear and thorough and supported with detailed information.
2. Lunar life <ul style="list-style-type: none"> Population and description of residents Daily life: recreation, jobs 	No description of population or daily life.	Underdeveloped description of population or daily life.	General description of city population and daily life, but needs additional details.	Clearly developed description of city population and daily life.	Description of both population 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, food, etc. Incorporates advanced technology 	No description of city infrastructure.	Description of one type of city infrastructure. Technology is not advanced.	Clear description of housing and transportation infrastructure. Technology is somewhat advanced.	Clear and thorough description of housing and transportation infrastructure. Technology is advanced.	Clear and thorough description of housing, transportation, and one more type of city infrastructure. Technology is very advanced.
4. City services <ul style="list-style-type: none"> Types of city services could include: education, healthcare, fire, etc. 	No description of city services.	Underdeveloped description of one city service.	Clear description of one city service.	Clear and thorough description of more than one city service.	Clear and thorough description of more than two city 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 detailed information.
6. Moon challenges and hazards <ul style="list-style-type: none"> Challenges of lunar living City protection(s) against hazards 	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.



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II. Using Moon Resources (16 Points)	0	1	2	3	4
7. Describes two Moon resources and how they are used in the city <ul style="list-style-type: none"> Form(s) it is found in How city obtains/collects it Problem or challenge each resource addresses 	No description of Moon resources.	Underdeveloped description of at least one Moon resource with limited details.	General description of two Moon resources with sufficient details.	Clear description of two Moon resources with a good level of detail.	Clear and thorough description of two Moon resources with extensive details.
8. Describes how the city's use of the two resources is futuristic and innovative <ul style="list-style-type: none"> Incorporates advanced technology 	No description.	Underdeveloped description of at least one innovative or futuristic use. Technology is not advanced.	General description of innovative and futuristic uses of two resources. Technology is somewhat advanced.	Clear description of innovative and futuristic uses of two resources. Technology is advanced.	Clear and thorough description of innovative and futuristic uses of two resources. Technology is very advanced.
9. Risks, tradeoffs & compromises related to chosen Moon resources <ul style="list-style-type: none"> Benefits, risks Tradeoffs & compromises 	No discussion.	Underdeveloped description of at least one benefit, risk, or tradeoff.	General description of two benefits, risks, or tradeoffs.	Clear description of two or more benefits, risks, or tradeoffs.	Clear and thorough description of two or more benefits, risks, or tradeoffs.
10. Engineering disciplines involved and roles of engineers	No description.	Underdeveloped description of one engineering discipline or role of one engineer.	General description of more than one engineering discipline and/or role of engineers.	Clear description of at least two engineering disciplines and roles of the engineers.	Clear and thorough description of more than two engineering disciplines and roles of the engineers.
III. Judge Assessment (12 Points)	0	1	2	3	4
11. Effectiveness of protections for living on the Moon <ul style="list-style-type: none"> Proposed solutions provide adequate protection for residents' health and safety 	Not effective.	Protections need improvement. Questionable ability to ensure resident safety and health.	Protections are somewhat effective but many questions remain about ability to ensure resident safety and health.	Protections are adequate but some questions remain about ability to ensure resident safety and health.	Protections are effective and ability to ensure resident safety and health is addressed.
12. Innovative and futuristic solutions <ul style="list-style-type: none"> Reasonable extrapolation and application of technology Degree to which solution involves engineering 	Not innovative or original.	Somewhat original or innovative. Not futuristic. Little engineering involved.	Solution is moderately innovative, original or futuristic. Some engineering involved.	Solution is innovative and futuristic. Considerable engineering involved.	Solution is highly innovative, original and futuristic. Extensive engineering involved.

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III. Judge Assessment (12 Points) (Continued)	0	1	2	3	4
13. Risks, tradeoffs, & compromises <ul style="list-style-type: none"> Accounting for risks, benefits Assessing consequences and making logical decisions 	Does not explore.	Some consideration, but major issues are ignored.	Adequate assessment of risks, tradeoffs, and compromises. Analysis could be improved.	Good analysis of risk, tradeoffs, and compromises in decision-making process.	Excellent assessment of risk, tradeoffs, and compromises in decision-making process.
IV. Writing Skills (6 Points)	0	1	2	3	4
14. 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.		
15. Grammar & Spelling	Many spelling and grammatical errors.	Some spelling and grammatical errors.	Minimal grammatical and spelling errors.		
16. Graphics, References, & Word Count <ul style="list-style-type: none"> If used, maximum of 4 graphics/illustrations (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 word count. Word count includes captions and words in graphics, illustrations, and tables. 	No references and/or no word count and/or exceeds allowed graphics/illustrations.	Fewer than three acceptable references and/or inaccurate word count.	At least three acceptable references. Accurate word count at end of document. Does not exceed maximum of 4 graphics or illustrations.		