Inquiring and Analyzing - Criterion A

Unit Title: Sustainable cities and communities

KC – Communities
RC – Sustainability
GC- Globalization and sustainability
SOI - "Exploring the interdependence of communities within sustainable cities and their role in addressing global challenges, emphasizing the synergy between local actions and the broader context of globalization and sustainability."

Command Terms

Note: Information in red box for the reference only.

Strand 1: Explain and Justify the need for a solution to a problem

Establishing the context:

Use following guiding descriptors

- The problem that I want my product/ solution to address is...(what?)
- The reason that this problem exists is... (why?)
- My solution will be aimed at...(who?).
- If I am successful in creating these product...(what will change?)
- PROOF (show proof of the problem)
- This evidence shows...(what?)
- This proves we need to create a solution for this issue because...(why?)

Design problem:

(Hint: This is probably related to the unit's Statement of Inquiry)

(Think from a designer's point of view: what you will need to design as a solution?)

Need for solution

What evidence do you have that the problem exists and needs to be solved? Provide Citation in MLA 9 format

Strand 2: Identify and prioritize the research

State and Prioritize the main points of research needed to develop a solution to a problem, with minimal guidance.

Example of research questions

Create a table to organize your research:

I need to know (what?)	This is (how important?) because (why?)	Level of priority
Research point 1		
Research point 2		
Research point 3		

High - I cannot create my product without researching the answers to the question.

Medium - I can create my board games but the information from this question will help me enhance my board games

Low - I can create my board games but this is additional research so that my board game can have something different/unique Or it is just for my information

What form of information will help you arrive at the best solution? Create questions that you don't	Arrange the need of the information to develop the board game from 1 to 8, where 1 is the highest and 8 is the	Where is the information?(Website, book, newspaper, etc.) MLA 9 Format Citation	Share your understanding after research in your own words. DO NOT COPY PASTE

know the answer to. It cannot be a part of your prior knowledge. Add minimum 7 questions	lowest.	Required	
What are the key components of a sustainable transportation system in a city,	High	(research link – cite it) Or Interview(image/link)	

Strand 3: Analyze the existing products

Describes the features of an Existing Product that inspires a solution to the problem.

You have to analyze at least 2-3 existing products

one example that each include:

- image
- (what features) make this example successful at (what?)
- because (why?)
- This inspires me to (do what?) in my solution/ product design.

Share the link and an image of the sustainable city/ product/ community you are analyzing for inspiration:

Strength	**Weakness**	**Opportunities**	**Threat**

Strand 4: Design brief

Presents main findings of relevant research

Research Point 1
I found out that (what)?
Now I know (what?) I will (do/avoid doing what?) as I design (what part of the sustainable city?) because (why?)
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Research Point 1
I found out that (what)?
Now I know (what?) I will (do/avoid doing what?) as I design (what part of the sustainable city?) because (why?)
The dream scenario of what 'success' looks like for me in this unit is...

What problem are you solving through your solution? Summarize information from strand 1

What did you learn through research that will help you create your sustainable city? Summarize information from strand 2

Which features from the existing sustainable city will you apply to yours and why? Draw inspiration from strand 3

Apart from the features mentioned above, what other features do you plan to have on your solution that solves the problem?