FULL Name:	DUE Date:	

Summative 3: Elements of Good Design

Overall Expectation(s): 1. Analyse personal, social, economic, and environmental factors that need to be considered in designing and building structures and devices (7s20).

Elements of Good Design

- A good design takes into account the function of the structure.
- Good design considers the strength and stability needed by a structure.
- Symmetry is often used in good design.
- Ergonomic design of objects makes them easier to use.

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How do y	you know it '	your structure nas a	good design?	Ask yourself these of	luestions when	designing ar	na bullaing

- □ Does my design link the structure to its function?
- □ Can my design withstand the forces that the structure will encounter?
- □ Is my design easy to build with the materials I want to use?
- □ Is my design ergonomic?
- □ Is my design aesthetically pleasing?
- □ Do I want my design to be symmetrical?

Choose a structure in the community you live in. Using the Elements of Good Design as a guide, consider the possible factors for each point of view that should have been considered when designing and building he structure to meet specific needs. For example, imagine a new shopping centre was being built in Richmond Hill.

Individuals (child, elderly person, parent, families)

□ What questions / factors would an Individual think about regarding the location / materials used for building / ergonomics / and safety of the new shopping centre?

Society (members of a community who live together for their mutual benefit)

What questions / factors would a member of society think about regarding the location/materials used for building/ergonomics/ and safety of the new shopping centre?

Economy (companies that produce items, distributors (businesses) and consumers (shoppers) of goods & services

☐ What questions / factors would a member of the economy think about regarding the location/ materials used for building/ergonomics/ and safety of the new shopping centre?

Environment (environmentalist, ecologist, green people)

□ What questions / factors would an environmentalist think about regarding the location/materials used for building/ergonomics/safety of the new shopping centre?

Assessment Criteria - Summative Evaluation

	Level 4	Level 3	Level 2	Level 1
•Evaluate the importance	 Student demonstrates a 	 Student demonstrates 	 Student demonstrates 	Student demonstrates
for individuals, society,	high degree of	considerable	some understanding	limited understanding
the economy, and the	understanding when	understanding when	when analysing	when analysing personal,
environment of factors	analysing personal,	analysing personal,	personal, social,	social, economic, and
that should be	social, economic, and	social, economic, and	economic, and	environmental factors
considered in designing	environmental factors	environmental factors	environmental factors	that need to be
and building structures	that need to be	that need to be	that need to be	considered in designing
and devices to meet	considered in designing	considered in designing	considered in designing	and building structures
specific needs (7s24)	and building structures	and building structures	and building structures	and devices.
	and devices.	and devices.	and devices.	

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	Individuals (People & Families)	Society (Members of a community who live together for their mutual benefit)	Economy (system of production, distribution and consumption of goods & services of an economy)	Environment Natural surroundings
Location				
Materials				
Ergonomics				
Safety				