

Criterion A (Inquiring & Analysing)

A1: Design Need

...explain and justify the need for a solution to a problem...

Command Terms

Explain Give a detailed account including reasons or causes.

Justify Give valid reasons or evidence to support an answer or conclusion.

Outline Give a brief account or summary.

State Give a specific name, value or other brief answer without explanation or calculation.

	Level Descriptor	Task-Specific Clarification
1–2	The student states the need for for a solution to a problem.	<i>The problem you’ve chosen is stated simply or suggests only a direct use of the challenge you’ve been given.</i>
3–4	The student outlines the need for a solution to a problem.	<i>The problem you’ve chosen is described adequately, but with little connections to an authentic application.</i>
5–6	The student explains the need for a solution to a problem.	<i>The problem you’ve chosen is described fully, including a connection to an authentic application and audience.</i>
7–8	The student explains and justifies the need for a solution to a problem.	<i>The problem you’ve chosen is described fully, including a connection to an authentic application and audience. The need for this problem to be solved is also fully explored.</i>

Guiding Questions

q1 What is the problem for which you will be designing a solution?
q2 Why does that problem require a solution?
q3 Who might benefit most from it being solved?
⚠ Do <i>not</i> describe a potential solution to the problem.

A2: Research Plan

...construct a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem...

Command Terms

Construct Display information in a diagrammatic or logical form.

Develop Improve incrementally, elaborate or expand in detail. Evolve to a more advanced or effective state.

Prioritize Give relative importance to, or put in an order of preference.

State Give a specific name, value or other brief answer without explanation or calculation.

Qualifiers

...independently... No additional help is needed to develop the research plan.

...some of... The research described is missing or incomplete.

...with some guidance... Some additional help is needed to develop the research plan.

	Level Descriptor	Task-Specific Clarification
1–2	The student states some of the main findings of relevant research.	
3–4	The student states the research needed to develop a solution to the problem, with some guidance .	
5–6	The student constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem, with some guidance .	
7–8	The student constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem independently .	

Guiding Questions

A3: Existing Products

...analyse a group of similar products that inspire a solution to the problem...

Command Terms

Analyse

Describe

Outline

	Level Descriptor	Task-Specific Clarification
1–2		
3–4	The student outlines one existing product that inspires a solution to the problem.	
5–6	The student describes a group of similar products that inspire a solution to the problem.	
7–8	The student analyses a group of similar products that inspire a solution to the problem.	

Guiding Questions

A4: Design Brief

...develop a design brief, which presents the analysis of relevant research...

Command Terms

Develop

Outline

	Level Descriptor	Task-Specific Clarification
1–2		
3–4	The student develops a basic design brief, which outlines some of the findings of relevant research.	
5–6	The student develops a design brief, which outlines the findings of relevant research.	
7–8	The student develops a design brief, which presents the analysis of relevant research.	

Guiding Questions