## **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 <b>states</b> the need for for a solution to a problem.	The problem you've chosen is stated simply or suggests only a direct use of the challenge you've been given.
3-4	The student <b>outlines</b> the need for a solution to a problem.	The problem you've chosen is described adequately, but with little connections to an authentic application.
5-6	The student <b>explains</b> the need for a solution to a problem.	The problem you've chosen is described fully, including a connection to an authentic application and audience.
7–8	The student <b>explains</b> and <b>justifies</b> the need for a solution to a problem.	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.

Q1 What is the problem for which you will be designing a solution?		
as Why does that problem require a solution?		
<b>Q2</b> 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.	٨	
a bothor describe a potential solution to the problem.	A	

#### 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 <b>states some of</b> the main findings of relevant	
	research.	
3-4	The student <b>states</b> the research needed to <b>develop</b> a solu-	
	tion to the problem, with some guidance.	
5-6	The student <b>constructs</b> a research plan, which <b>states</b> and	
	prioritizes the primary and secondary research needed to	
	<b>develop</b> a solution to the problem, <b>with some guidance</b> .	
7-8	The student <b>constructs</b> a research plan, which <b>states</b> and	
	prioritizes the primary and secondary research needed to	
	develop a solution to the problem independently.	

## **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 <b>outlines one existing</b> product that inspires a solution to the problem.	
5-6	The student <b>describes</b> a group of similar products that inspire a solution to the problem.	
7–8	The student <b>analyses</b> a group of similar products that inspire a solution to the problem.	

## 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 <b>develops</b> a <b>basic</b> design brief, which <b>outlines</b>	
	some of the findings of relevant research.	
5-6	The student <b>develops</b> a design brief, which <b>outlines</b> the	
	findings of relevant research.	
7-8	The student <b>develops</b> a design brief, which <b>presents</b> the	
	analysis of relevant research.	

# **Criterion B (Developing Ideas)**

**B1: Design Specifications** 

**B2: Design Ideas** 

## **B3: Chosen Design**

## **B4: Detailed Plans**

# **Criterion C (Creating the Solution)**

C1: Implementation Plan

## **C2: Technical Skills**

**C3: Product Development** 

C4: Changes

# **Criterion D (Evaluating)**

D1: Testing Methods

D2: Evaluation

**D3: Future Improvements** 

**D4: Impact Analysis**