

Developing Ideas

Presents the chosen design and **justifies fully and critically** its selection **with detailed reference to the design specification**
(Justify - Give valid reasons or evidence to support an answer or conclusion.)

Which design was chosen?

Why did you choose this design?

Explain how will this design solve the problem.

What questions may the designer ask to be able to design the product?

What other things might enhance the effectiveness of the product?

Which design specifications were met? *(Put an X in the box below)*

Spec 1	Spec 2	Spec 3	Spec 4	Spec 5	Spec 6	Spec 7	Spec 8

The above design specifications could not be met because:

Changes that I made to the design include:

Feasibility	<p>Ask Yourself: Do I need to do more research to complete my design? For example, how do I join one part of my design to another? <i>(If I go to do more research, I should include this in my Primary or Secondary research)</i></p>
	<p>What materials do you think should be used, and why?</p> <p>Are the materials available?</p> <p><i>(Circle one)</i> YES or NO</p>
	<p>What resources do I need to make the design?</p> <p>Does the school have the resources (tools, machinery, hardware, software or materials) to make the design?</p> <p><i>(Circle one)</i> YES or NO</p> <p>If not, what can I do to make the design?</p> <p>Will I have to get any resources myself? If so, where and when?</p>
	<p>List the skills or processes I need to make this design.</p> <p>Do I have the skills to make this design?</p> <p><i>(Circle one)</i> YES or NO</p> <p>Can I gain the skills to make this design?</p> <p><i>(Circle one)</i> YES or NO</p>
	<p>How much time do I have to make the design?</p> <p>How many classes is this?</p> <p>Will I be able to make this design in the time available?</p> <p><i>(Circle one)</i> YES or NO</p>
	<p>What will the costs be for the design?</p> <p>Would it cost too much?</p> <p><i>(Circle one)</i> YES or NO</p>
	<p>List any safety concerns.</p> <p>Is it safe?</p> <p><i>(Circle one)</i> YES or NO</p>

Feasibility	Why do you think your client will like the idea?
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What is a feasible idea?

A feasible idea is an idea students could successfully make independently in the given time, with their skills, and with the resources at their disposal.

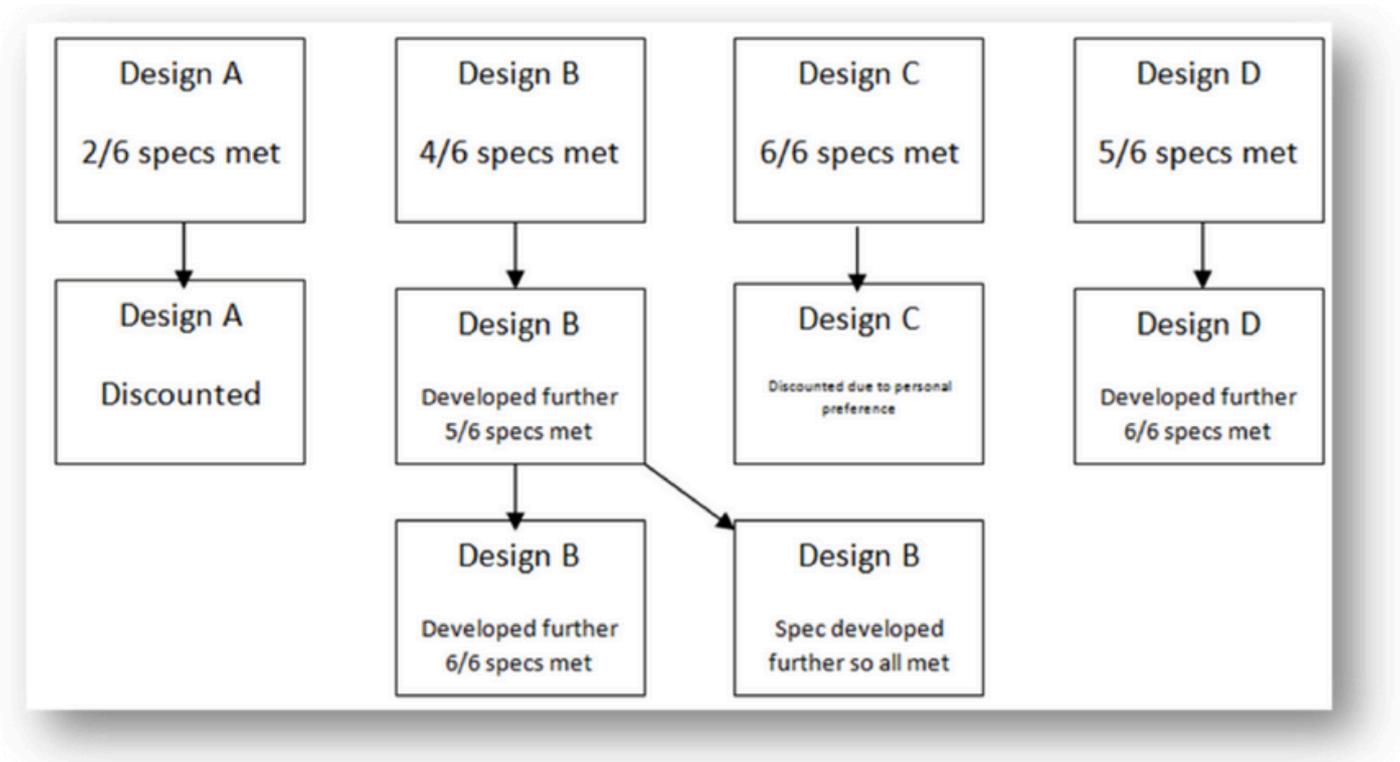
Students can include ideas in their design folio that do not achieve all specifications successfully, but these ideas should lead to feasible ideas through design development or be constructively criticized through annotation to highlight weaknesses and suggest improvements.

To ensure that ideas are feasible, they may need to be tested using mock-ups or models.

Depending on the type of project, students can use mock-ups or models to prove concepts or test whether their ideas or solutions will work. This is part of the development of ideas. Students should explain why they are making the mock-up or model and how it has helped them solve any design problems. They should provide evidence of their development by photographing the mock-ups or models and include the results of testing as evidence in the design folio. Students should also clearly state how this testing has informed further development of the designs.

EXAMPLE 1 of Justification and Selection

In this example, the student can choose to disregard design C, which meets the design specifications, and continue to develop designs B and D. Design D is developed further to meet the design specifications fully. However, design B needs much more development to meet the design specifications.



EXAMPLE 2 of Justification and Selection

In this example, the student assigns a quantitative rating of how well each design meets each of the design specifications.

Design 2 seemed more likely to be chosen because it received the highest rating from peers. However, feedback from the client indicated that the design was not preferable.

Designs can be further developed to improve their weak ratings against particular specifications, but when designs are developed for a particular client as opposed to a target audience, after the design has been developed to fully meet the design specifications, the client has the final choice.

Design Specifications	Incorporation of the theatre mask image.	Use of colour	Simplicity of design	Overall presentation	Logo	Total score
Design 1		3	3			6
Design 2	4		1	4	4	13
Design 3		1				1