Explain and justify the need
Who are you making your product for? What do they want?
and explain how you are going to help them to solve this “Design problem”.

Identify and prioritize the research
Brainstorm your initial ideas about the “Design problem”. From this, develop your research questions. Justify and prioritize them in a table.

Analyze existing products
Research a number of different products or techniques that already exist, that could help you solve the “Design problem”.

Summarize and conclude what you have found out in your Research, and how this will help you solve the “Design situation”.

Develop a design brief
Develop a Design Specification

Good quality Designs, annotated. Test each of them against your Specifications.

Present the chosen design
Develop planning drawings/diagrams

Your final chosen Design. High quality drawing, with annotations and dimensions.

Explain and justify the changes or modifications you have made. Show your final product in detail.

Follow the plan you made, but if you make any modifications then remember them and record them.

Construct a logical plan
A logical step by step process of how you are going to make your product. Remember to include time and resources.

Design ideas
Develop design ideas

Present the chosen design

A list of things that your product must, or must not do.

Inquiring and analyzing
Think of the impact of your design on the user.

Explain how the solution could be improved

Good quality designs, annotated. Test each of them against your specifications.

Evaluating
Using the data you have gathered, explain and justify how successful the whole project has been. Make direct reference to whether or not you have met the specifications.

Construct a survey, interview, or expert test to gather data on how well your product has been made, and if it has solved the “Design problem”.

Thinking back to how you modified your designs, are there any more improvements that you could make? Explain why you would do this.

Have you solved the “Design problem” for your client? Explain how and why you have achieved this.

Explain the success of the solution

Evaluate the success of the solution

Make direct reference to whether or not you have met the specifications.

Developing ideas
Design testing methods

Demonstrate technical skills

Follow the plan you made, but if you make any modifications then remember them and record them.

Your final chosen design. High quality drawing, with annotations and dimensions.

Your final chosen design. High quality drawing, with annotations and dimensions.

Explain why you have chosen this design, with direct reference to your specifications.

Present the chosen design