Stage 2 Design and Technology

Material Products

Assessment Type 2: Product

Furniture

Product Record

	In this picture I have put my butt hinges on so I can see that it is all level and the door doesn't rub against the top of my entertainment unit.
	This is how my door turned out to be once I have screwed it into place and made it fit without rubbing.
	Here I am just getting my backing cut to size ready to be nailed into the back of my entertainment unit.
	In this picture I am just nailing my backing on to my entertainment unit.

Planning
The sequence of images and text provides limited evidence of product design ideas.
(PI2)

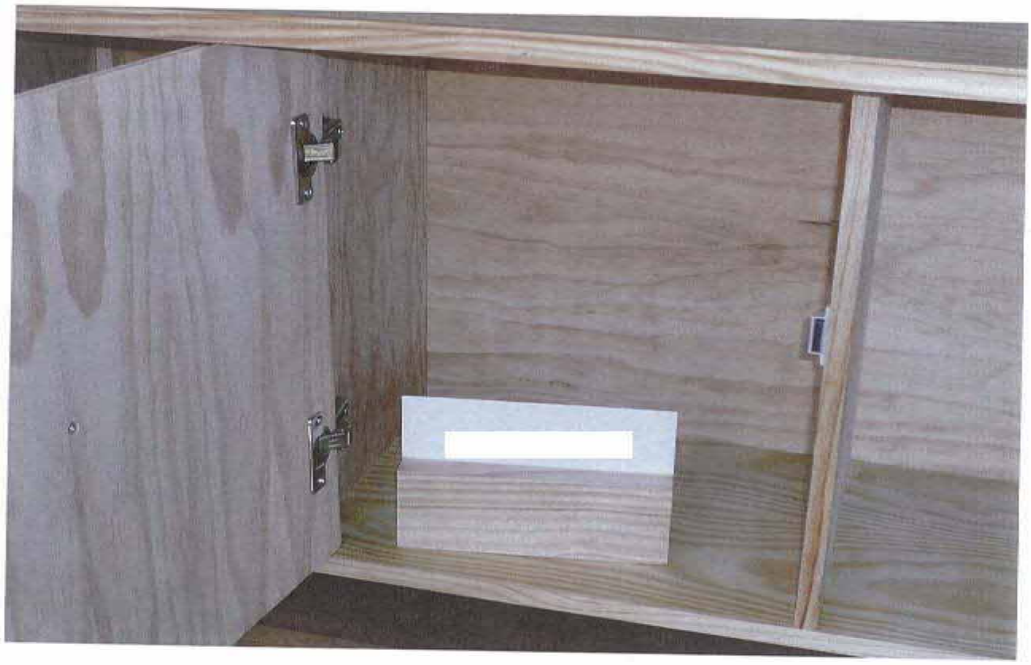
Producing
Partial development of some basic solutions to technical problems arising during product realisation.
(Pr3)

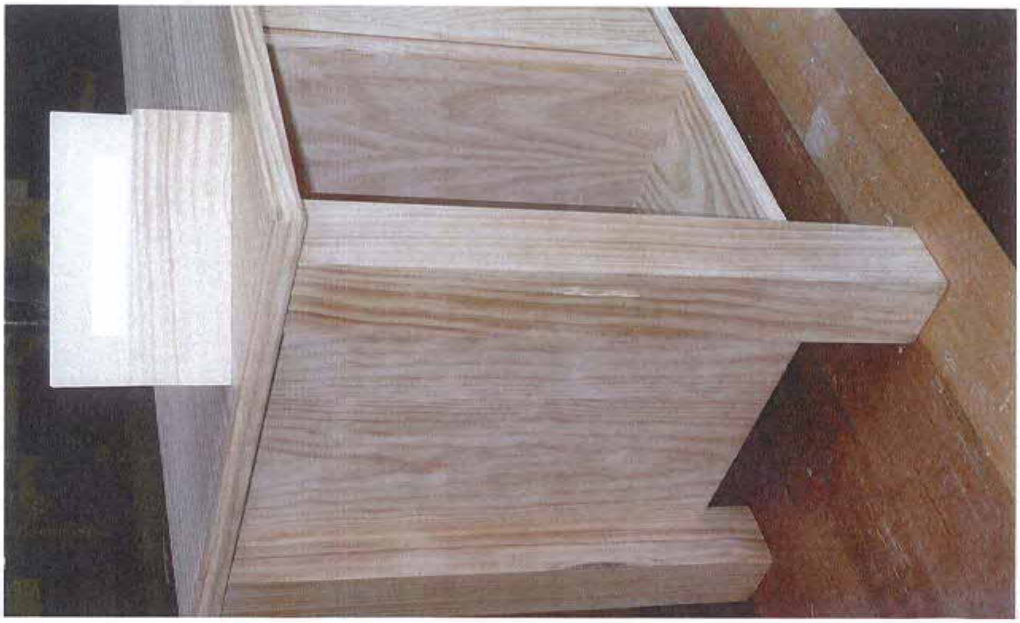
	This is the first piece of wood I started with it is the piece of wood that I am using for my top and my bottom.
	This picture just shows all the pieces of wood that I need to put my project together. I have already done all the router joints that I need and also I stuck my legs together with biscuit joints.
	This picture shows my top being stuck together and my bottom piece has been routed out.
	In this picture I am scrapping the top of my edge strip so I can get it level with my top. So it all feels smooth and level.
	In this picture I have prepared my top to be routed out on the side edge strip with a fancy router piece.

Producing
Competent application of skills, processes, procedures, and techniques to create a product to an appropriate standard and specification.
(Pr1)

	In this picture I am just getting ready to measure out where my legs are going to go so I can get it level with my bottom.
	This picture just shows the outline of my legs and I drew crosses in the middle of them so I can get it centre to drill holes for my dowel joints.
	In this picture I was in the process of sticking all my pieces of wood together.

Evaluating
Sequence of images and text describes product progress with some evidence of basic testing against design brief requirements.
(E1)





Producing
Competent use of resources, equipment, and materials to create a product safely and generally accurately.
(Pr2)

Additional Comments

This evidence is illustrative of a C- grade.

The presentation of this major product demonstrates the competent application of skills, techniques, knowledge and ideas to create the final product.

The final product is represented by a series of three medium size images, one showing the final product as a whole, and the other two showing a side view and some detail of internal hinges.

The product record provides a basic commentary of progress towards completion. This record provides evidence of the:

- selection and use of appropriate components
- competent application of knowledge, skills and techniques
- competent use of materials with appropriate functional characteristics and properties
- on-going reflection, with description of the process, and with the recognition of technical problems and some development of simple solutions.

Performance Standards for Stage 2 Design and Technology

	Investigating	Planning	Producing	Evaluating
A	Clear, comprehensive, and well-considered identification of a need, problem, or challenge. Thorough and insightful creation and validation of initial design brief based on needs analysis and task identification. Purposeful investigation and critical analysis of the characteristics of a broad variety of existing products, processes, systems, and/or production techniques. In-depth investigation into product material options and focused and thorough critical analysis for product use. Focused and perceptive investigation into the impact of products or systems on individuals, society, and/or the environment.	In-depth analysis of information to develop imaginative, innovative, and enterprising solutions to an identified design brief. Accomplished communication of a variety of refined product design ideas, consistently using relevant technical language. Purposeful testing and refined modification and validation of ideas or procedures.	Sophisticated application of appropriate skills, processes, procedures, and techniques to create a product or system to a precise or polished standard and specification. Accomplished use of resources, equipment, and materials to create a product or system safely and accurately. Accomplished and resourceful development of solutions to technical problems that may arise during product or system realisation.	Insightful and well-considered evaluation of product success against design brief requirements. Insightful and detailed evaluation of the effectiveness of the product or system realisation process. Refined and well-considered reflection on materials, ideas, and procedures, with sophisticated recommendations. Resourceful and well-informed analysis of the impact of the product or system on individuals, society, and/or the environment.
B	Well-considered identification of a need, problem, or challenge. Well-considered creation and validation of an initial design brief based on needs analysis and task identification. Thoughtful investigation and analysis of the characteristics of a variety of existing products, processes, systems, and/or production techniques. Detailed investigation into product material options and thorough analysis for product use. Some depth of investigation into the impact of products or systems on individuals, society, and/or the environment.	Thoughtful analysis of information to develop enterprising solutions to an identified design brief. Capable communication of different quality product design ideas using relevant technical language. Thoughtful testing, modification, and validation of ideas or procedures.	Capable application of appropriate skills, processes, procedures, and techniques to create a product or system to a mostly precise or polished standard and specification. Capable use of resources, equipment, and materials to create a product or system safely and mostly accurately. Thoughtful development of solutions to technical problems that may arise during product or system realisation.	Well-considered evaluation of product success against design brief requirements. Well-considered and detailed evaluation of the effectiveness of the product or system realisation process. Well-considered reflection on materials, ideas, and procedures, with thoughtful recommendations. Well-informed analysis of the impact of the product or system on individuals, society, and/or the environment.
C	Considered identification of a need, problem, or challenge. Considered creation and validation of an initial design brief based on needs analysis and task identification. Competent investigation of the characteristics of some existing products, processes, systems, and/or production techniques. Competent investigation into product material options and analysis for product use. Generally thoughtful investigation into the impact of products or systems on individuals, society, and/or the environment.	Analysis of information to develop appropriate solutions to an identified design brief. Competent communication of product design ideas using appropriate technical language. Competent testing, modification, and validation of ideas or procedures.	Competent application of skills, processes, procedures, and techniques to create a product or system to an appropriate standard and specification. Competent use of resources, equipment, and materials to create a product or system safely and generally accurately. Development of appropriate solutions to technical problems that may arise during product or system realisation.	Considered evaluation of product success against design brief requirements. Considered evaluation of the effectiveness of the product or system realisation process. Considered reflection on materials, ideas, and procedures, with appropriate recommendations. Informed analysis of the impact of the product or system on individuals, society, and/or the environment.

	Investigating	Planning	Producing	Evaluating
D	Identification of a basic need, problem, or challenge. Creation of a basic initial design brief with some consideration of a needs analysis. Identification of the characteristics of some existing products, processes, systems, or production techniques. Some basic description of material options. Some description of the impact of products or systems on individuals, society, or the environment.	Some identification of information to attempt basic solutions to an identified design brief. Basic communication of some product design ideas with some use of appropriate technical language. Partial testing and some modification of ideas or procedures.	Partial application of skills, processes, procedures, and techniques to make one or more articles to a limited standard and specification. Some use of basic resources, equipment, or materials to create a product or system, with some consideration of safety aspects. Partial development of some basic solutions to technical problems that may arise during product or system realisation.	Description of product progress, with elements of basic testing against design brief requirements. Some description of the effectiveness of the product or system realisation process. Superficial reflection on or description of materials, ideas, or procedures, with basic recommendations. Some consideration of the impact of the product on individuals, society, or the environment.
E	Limited identification of a need, problem, or challenge. Creation of a very basic initial design brief, with support. Statement of one or more characteristics of an existing product, process, system, or production technique. Limited description of one or more product material options. Identification of one impact of a product or system on individuals, society, or the environment.	Attempted identification of some information to develop limited solutions to an identified design brief. Limited communication of one or more product design ideas. Some attempt at testing and limited modification of an idea or procedure.	Attempted application of one or more skills, to follow an appropriate process, procedure, or technique. Attempted use of resources, equipment, or materials, with emerging awareness of safety issues. Some attempted description of problems that may arise during product or system realisation.	Identification of some product progress, with limited testing. Identification of some aspects of the effectiveness of the product or system realisation process. Identification rather than description of materials, ideas, or procedures, with one or more recommendations. Emerging recognition of one or more of the impacts of the product on individuals, society, or the environment.