SQA ASSESSMENT

NATIONAL 5 DESIGN AND MANUFACTURE

SKILLS, KNOWLEDGE AND UNDERSTANDING

- analysing information
- applying knowledge and understanding of:
- idea-generation techniques
- design factors
- graphic & modelling techniques
- planning and evaluation techniques
- tools, materials, and processes
- manufacturing techniques
- knowledge and understanding of commercial manufacture
- knowledge and understanding of the impact of a range of design and manufacturing technologies on our environment and society

THE COURSE ASSESSMENT HAS THREE COMPONENTS

Component I: question paper
 80 marks

Component 2: assignment — design 55 marks

• Component 3: assignment — practical 45 marks

QUESTION PAPER

- design (30 marks)
- workshop-based manufacture (30 marks)
- commercial manufacture (20 marks)
- **Section I** has 60 marks. This section assesses design and workshop-based manufacture and consists of six or seven questions.
- **Section 2** has 20 marks. This section assesses commercial manufacture and consists of four or five questions.

ASSIGNMENT — DESIGN

Marks are awarded as follows:

- Analysing a brief Carrying out research 5 marks
 Writing a specification 3 marks
- Generating ideas 9 marks
- Exploring ideas towards a proposal 6 marks
- Refining ideas towards a proposal 6marks
- Applying knowledge and understanding of design 4 marks
- Applying knowledge and understanding of materials and manufacture 4 marks
- Applying modelling techniques 6 marks
- Applying graphic techniques 6 marks
- Producing a plan for manufacture 6 marks

Notes to candidates

Before you start the research you should have read the instructions for candidates and be familiar with:

- · the brief
- . the skills you have to demonstrate
- . the type of evidence you have to provide

You should speak to **your** teacher or lecturer if you are unsure about the areas above.

Research

The company has carried out research and identified a few requirements for the shelf. You should gather further information to ensure the proposal is suitable for the company and the teenagers you know.

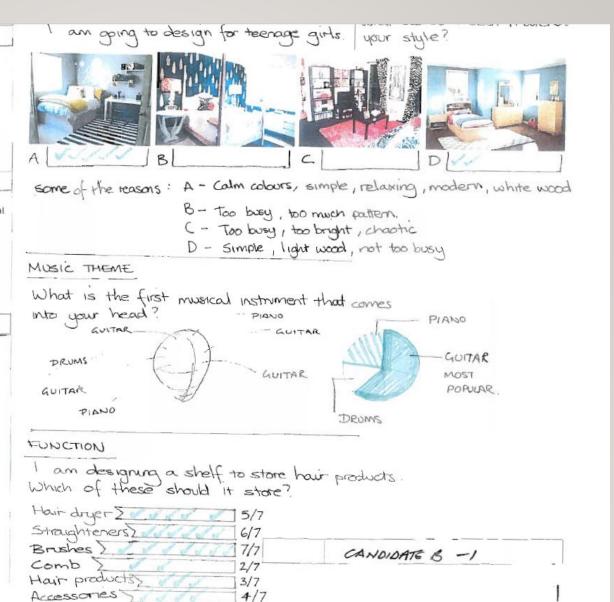
You should record your research information on this sheet (you can use both sides).

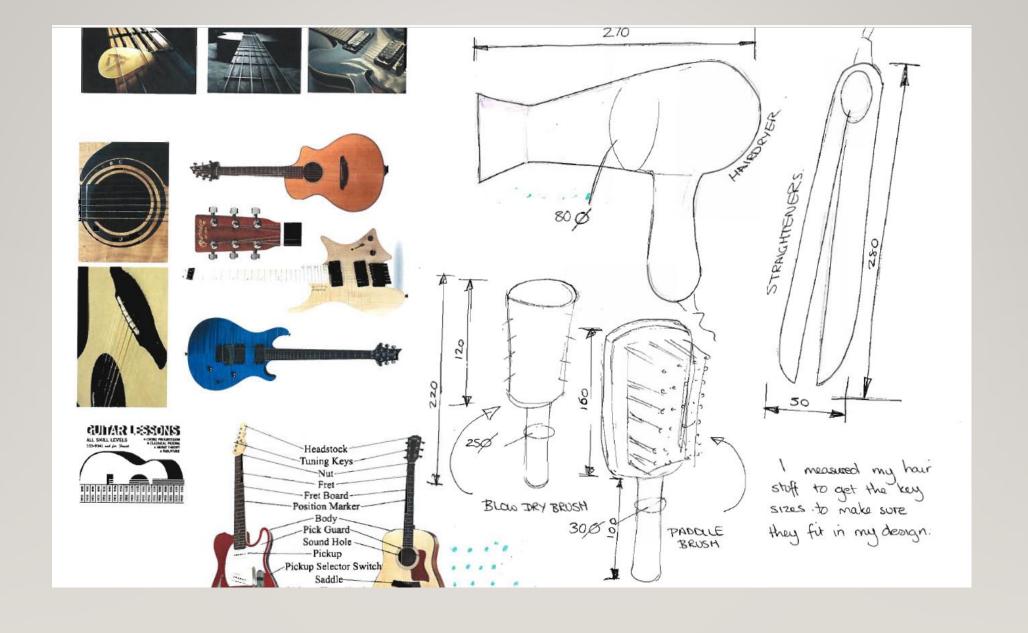
You should use findings from your research to complete the specification below.

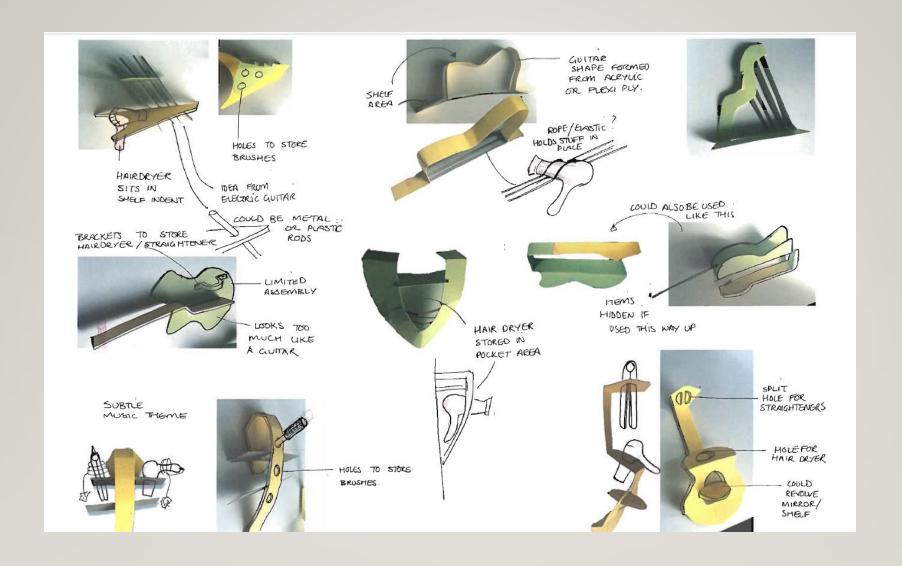
A small shelf - specification

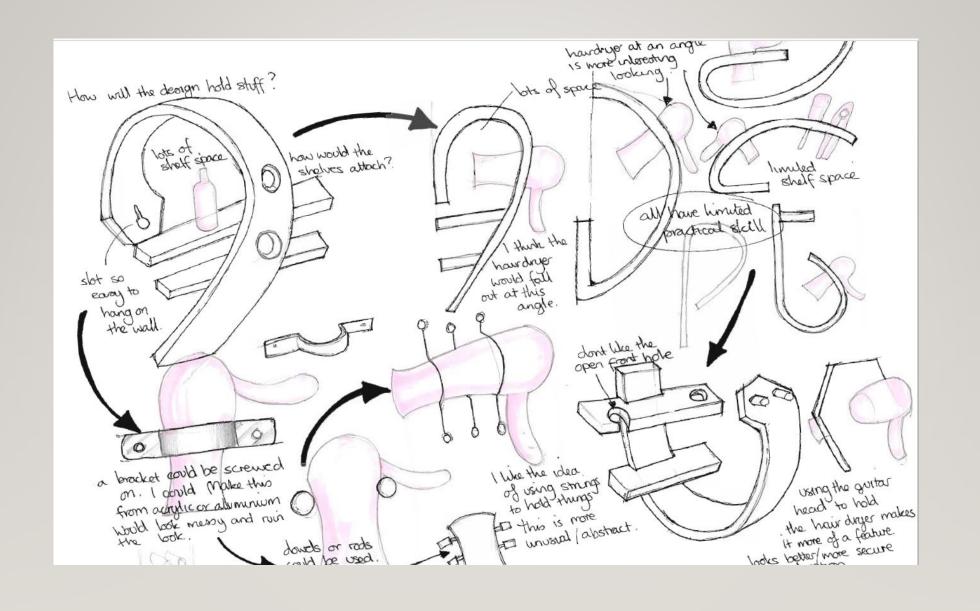
The shelf must:

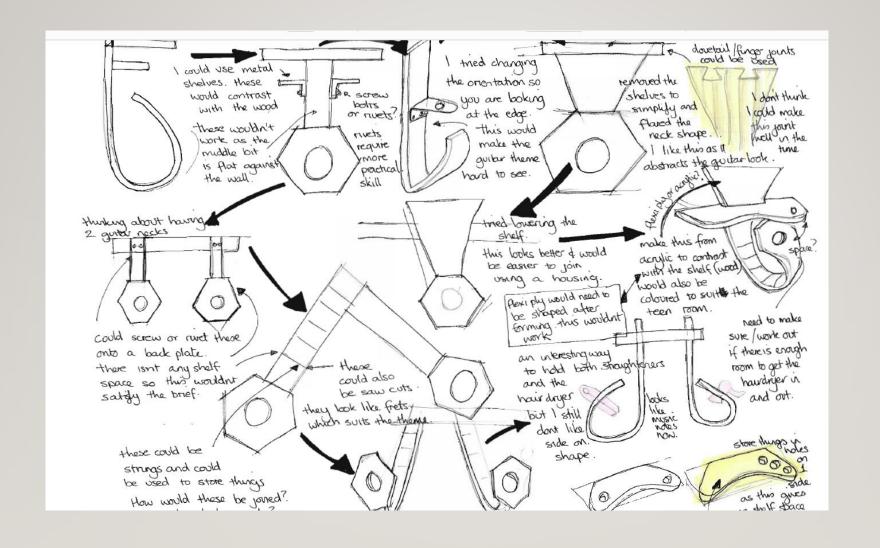
- · demonstrate a high level of craftsmanship ·
- · have simple modern design
- · use calm, neutral colours and materials
- · be influenced by guitars.
- · Incorporate quitar fectives such as strings
- · hold hour brushes (see research for size)
- · hold hardryer of straighteners (research has
- · be easy to get thengs in and out
- · be easy to wall mount.

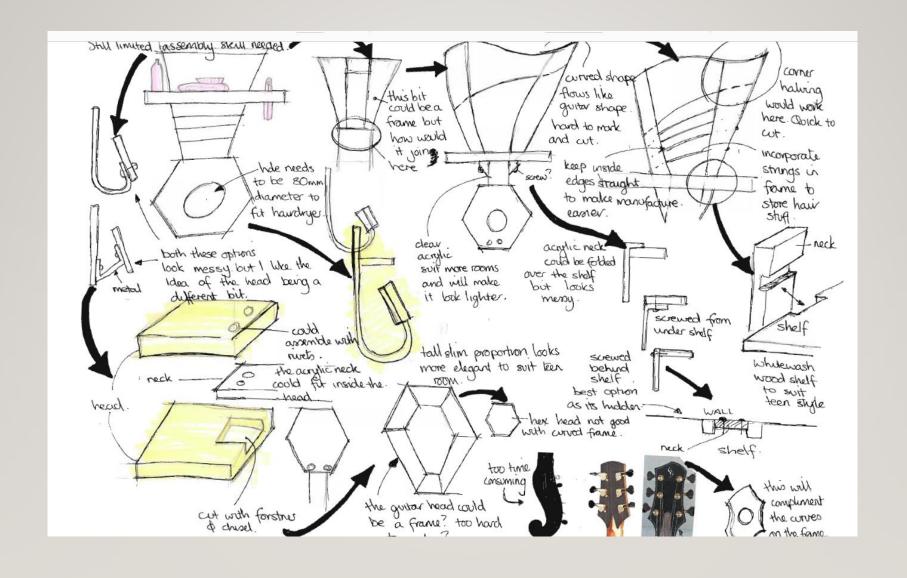


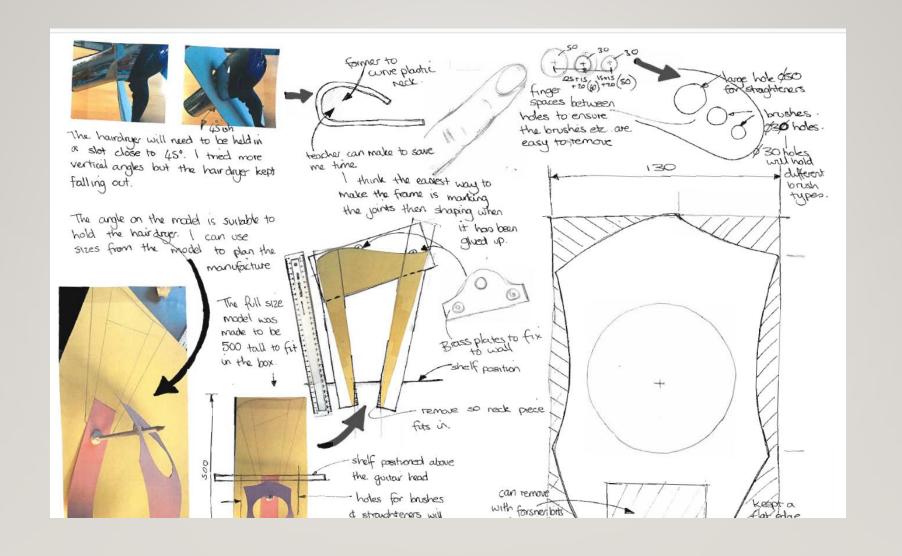


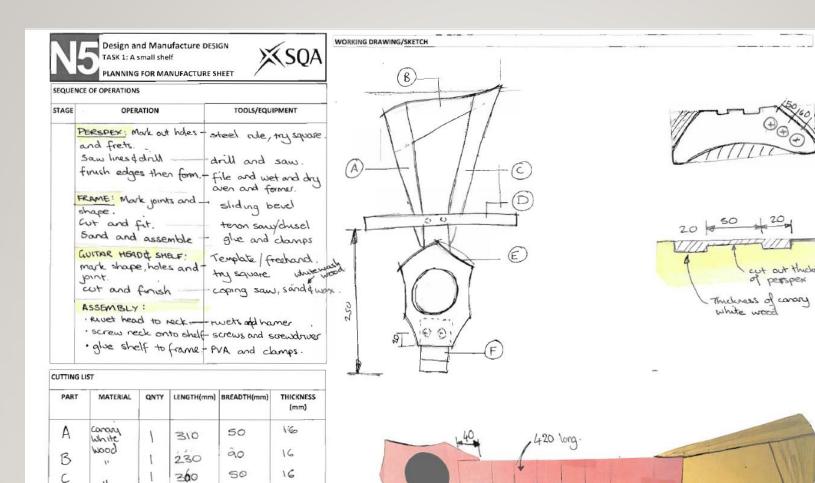












(frets) saw cuts somm apart.

cut out thuckness

of perspex

ASSIGNMENT — PRACTICAL

Marks are awarded as follows:

- measuring and marking-out (9 marks)
- using hand and machine tools (18 marks)
- assembling components (5 marks)
- finishing (9 marks)
- evaluating (4 marks)