

DESIGN BRIEF: *Design and manufacture a natural amplifier showing consideration for sustainability*

WEEKLY PLAN

- 1 - Designer Study
- 2 - Logo Research
- 3 - CAD/CAM Logos
- 4 - Vinyl Cutting
- 5 - Practical
- 6 - Practical
- 7 - Stand Modelling
- 9 - Stand manufacture
- 10 - Packaging Design
- 11 - Packaging Manufacture
- 12 - Evaluation

TOOLS

Record Clamp, Stretching Post, hand saws, Hand files, Scissors, Craft Knife, Cutting Mat

ADHESIVE

Pritt Stick, UHU

MACHINES

Baby Belling Oven, Laser Cutter, Vinyl Cutter, Scroll Saw, Disk Sander

MATERIALS

Vinyl Record, coloured sticky back vinyl Card, acrylic, manufactured board for stand

HEALTH AND SAFETY

- 1-062 - Forming, safe use of Belling oven
- 1-011 - Craft Knives
- 1-032 - Vinyl and Laser cutting



PROCESSES

- Record - Clamping, heating and stretching to produce new shape
- Stand - Modelling (different materials), possible laser cutting
- Logo - CAD/CAM 2D design & Vinyl Cutting
- Packaging - Chosen method

HOMEWORK

Favourite design research, Natural amplifiers around home, Story behind a logo, Stand analysis, Packaging analysis

SMSC

Culture, industrial practise, team work, Sustainability, 6R's

SIZES

- Diameter of record - 300mm
- Length of stretcher - 210mm
- Diameter of stretcher Disk - 100mm
- Amp stand - Maximum A4 sheet

WORKSHOP RULES

- PPE - Apron, gloves
- Records are brittle and sharp when broken, do not bend or drop them
- Cutting mats when using a craft knife
- Check Craft knives in at end of lesson
- Safety Rules
- Safe & appropriate use of Laser and Vinyl cutter

DIRT

- Rewrite and improve
- Correct spellings
- 10 x corrected spellings
- Grammatical errors
- Respond to comments
- Copy out neatly
- Likes or dislikes about a piece of work
- Set targets for improvement
- Compare your work with that of another pupil
- Emoticon your work
- RAG learning objectives
- Underline all headings



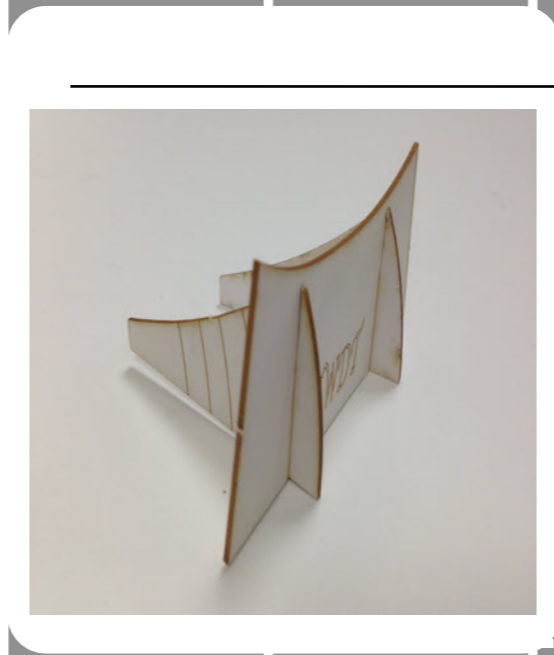
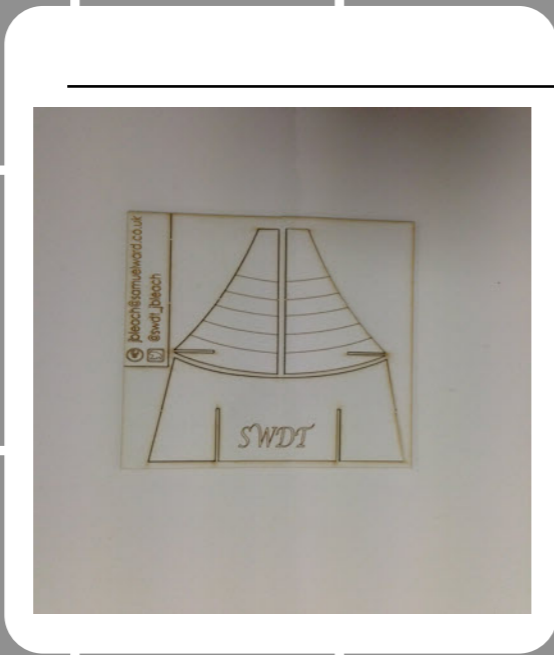
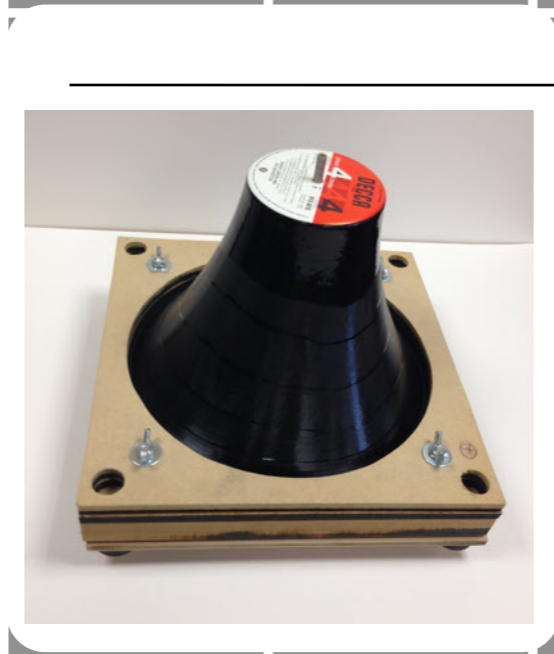
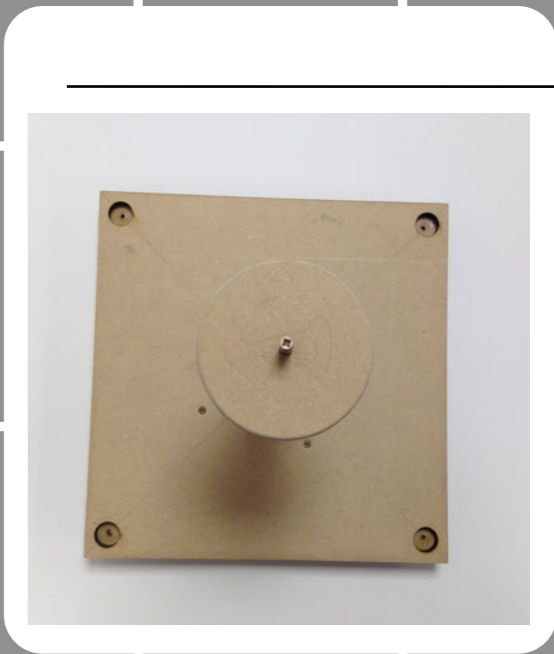
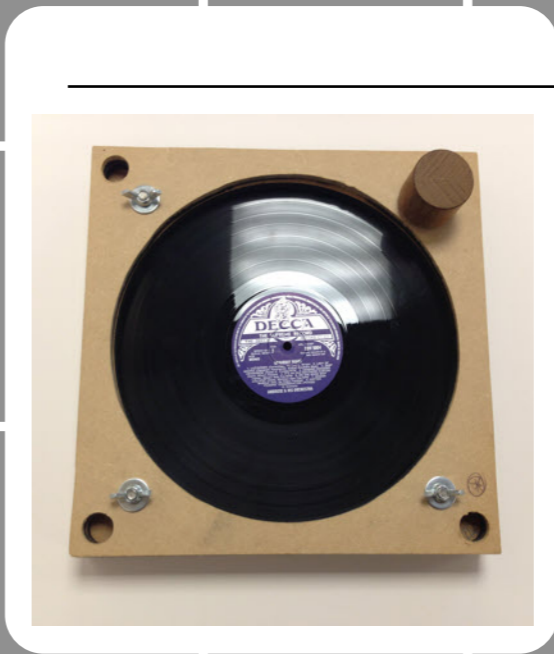
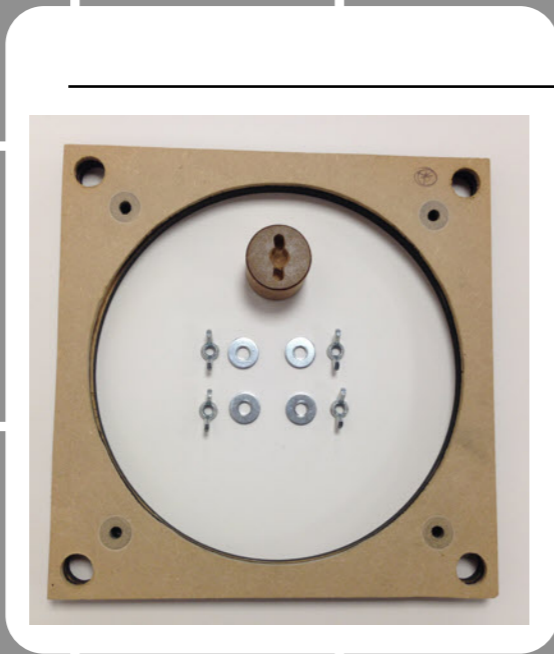
Extension Questions:

- How could a mechanical system help apply the force Required to stretch the record?
- List 3 ways electronics could be used to improve this Product.
- Use nature to inspire a redesign of the final product.
- Discuss ways in which programming can be used to enhance the electronics suggested for this product.

JAMBLE SOW - VINYL AMPLIFIER PROJECT

Designed by
JAMBLE&T





**CHANGE
THE
RECORD**