Year 11 GCSE DT Knowledge organiser Spring Term

Non Exam Assessment (NEA)

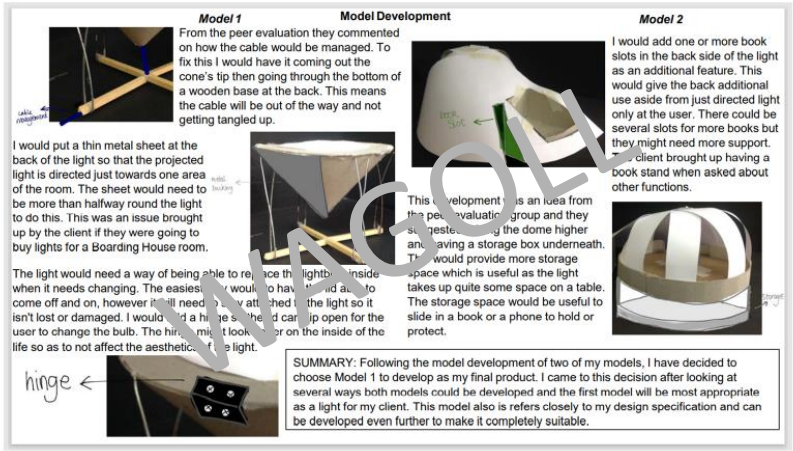
This term you will make your product independently using manufacturing skills relating to your chosen material area (Wood, petal or Plastic.) Once built your prototype project will be evaluated against the specification, tested and surveyed to gain the opinions of others.

Section E: Realising design ideas (20 marks)

Section D: Developing design ideas (20 marks)

To get the maximum marks you need to produce:

- Very detailed development work using a wide range of 2D/3D techniques (including CAD where appropriate) in order to develop a prototype.
- Excellent modelling, using a wide variety of methods to test their design ideas, fully meeting all requirements.
- Fully appropriate materials/components selected with extensive research into their working properties and availability.
- Fully detailed manufacturing specification is produced with comprehensive justification to inform manufacture.



Your tasks:

- ❑ Use photographs and drawings of your models to complete the design development section of the NEA.
- ❑ Describe every picture to get your ideas across
- ❑ Write about things that are good with your design. Highlight things that need to be improved. Suggest ways you will improve them
- ❑ Include additional sketches to show how you will modify your design as you move on to the next stage of making
- ❑ Annotate your drawings and photographs to show what materials will be used and details of how you will make it (naming tools, joining methods, describe the process of how it will be made)
- ❑ Produce a final design drawing (or model) and annotate it fully using ACCESSFM (this will be your "Manufacturing specification")
- ❑ Add a summary and client feedback on every slide!

Follow these links to an ACCESSFM worksheet

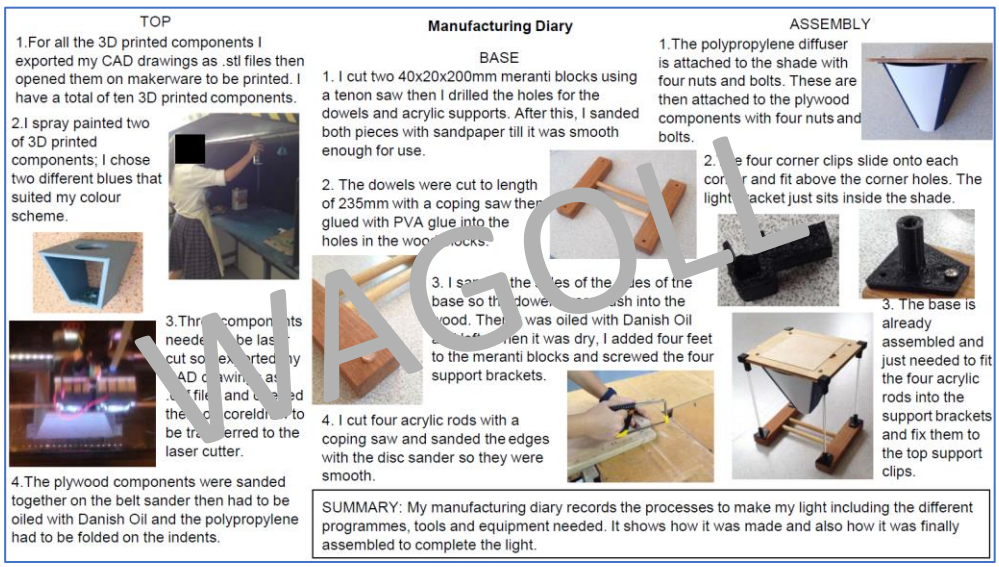
Section E: Realising design ideas (20 marks)

To get full marks in this section you need to make your final model to a high standard and show:

- The correct tools, materials and equipment (including CAM where appropriate) have been consistently used or operated safely with an exceptionally high level of skill.
- A high level of quality control is evident to ensure the prototype is accurate by consistently applying very close tolerances.
- Prototype shows an exceptionally high level of making/finishing skills that are fully consistent and appropriate to the desired outcome.
- An exceptionally high quality prototype that has the potential to be commercially viable has been produced and fully meets the needs of the client/user.

Your tasks:

- ❑ Use photographs and drawings of your final model to show the quality of the work
- ❑ Annotate your photographs to show what materials are used and detail how you made it (naming tools, joining methods, describe the process of how it was made)
- ❑ Include a summary and feedback from your client.



https://youtu.be/4uWFo4NK6Gs

https://youtu.be/AfKbYcS4RXo

Follow these links to see videos of how to make woodwork joints