Sthuke's High School Partment Reinfrewshire

East Renfrewshire Council: Education Department Practitioner Moderation Template

Prior to the moderation exercise, please complete the following information and submit it to your facilitator with assessment evidence from one learner that you judge to have successfully attained the Es' and Os'.

Experiences and Outcomes:

<u>I can create solutions in 3D and 2D and can justify the construction/graphic methods and design features</u>. TCH 3-09a

I can solve practical problems by applying my knowledge of measure, choosing the appropriate units and degree of accuracy for the task and using a formula to calculate area or volume when required. MNU 3-11a

Learning Intentions:

- 1. Generate a range of creative ideas to support a product of your choice
- 2. Use 2D and 3D sketching skills to present ideas
- 3. Model a final idea from card and produce a template for use in the workshop
- 4. Plan for manufacture of the final design proposal
- 5. Evaluate your design proposal against design features and workshop experience

Success Criteria:

- 1. I can follow a design process to reach a given brief
- 2. I can identify relevant design factors which have an impact on my design
- 3. I can apply knowledge of construction methods to justify my design solution
- 4. I can use tools and equipment to manufacture models and products
- 5. I can apply safety working practices when creating a final model
- 6. I can extract dimensions from a drawing or card model and transfer these onto material to create a final solution

Briefly outline the context and range of quality learning experiences that have been provided making reference to the chosen design principles.

Lesson One: Research and Analysis

Using the design process as a class discuss the relevant design features and analyse the brief. Learners are asked to explore products that they may want their design to support.

Lesson Two: Idea Generation

Learners were shown a Power Point and examples of different products to help them generate a range of ideas. Learners discussed how their ideas supported the design brief and asked to annotate their ideas with relevant design features. Learners also had the opportunity to create a 3D card model to support their learning.

Lesson Three - Four: Plan for Manufacture

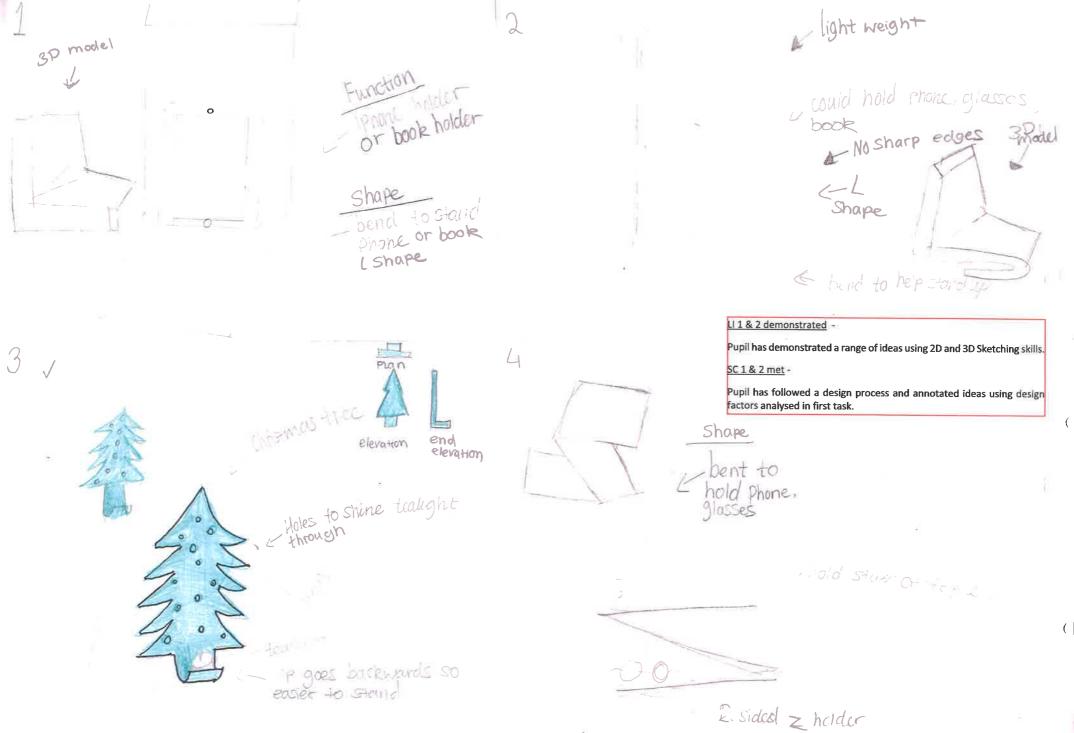
Learners were taught how to create an accurate template including dimensions to support their learning in the workshop. They also worked in groups and shown different manufacturing methods to allow them to plan for manufacture.

Pupil Voice: What have you learned? How did you learn? What skills have you developed?			
Exit Cards – See evidence of pupil exit cards lessons 1-3.			
Did the learner successfully attain the outcomes? YES/NO			

Material alluminary, Properties 3 ands easily - cosy to out, bend would, shape USET - Personal - Strong - Friends - family - gift LEGAL COST MOUNTAINS & Size - 200 - 10.111 organic nome-FINISH Spray Pauxed Sports Characters allorate Polished

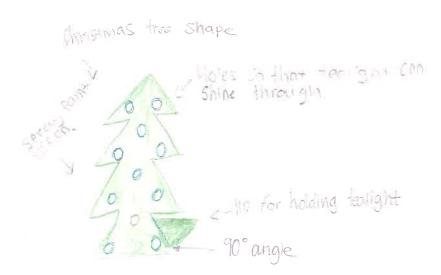
5C1&2 met -

Pupil has identified relevant design factors as an individual and as a class. Analysis of the brief has taken place.



STRUCTURAL DAMAGE - FINAL DESIGN

TASK 1 - SKETCH FINAL IDEA



TASK 3 - DESCRIBE YOUR FINAL DESIGN

What is the function of your product?

The function of this product is a tealight holder for a (Mishmas accordation.

What does your product look like? Shapes? Colours? Inspiration?

The Product is green with tree thangs shapes end a to folded lip at the vick of the state.

The product is some because there is no sharp edges and

TASK 4 - EVALUATE FINAL IDEA

(Note: Evaluation took place after workshop experience was completed) SC 1 & 6 met -

LI 3 & 5 demonstrated -

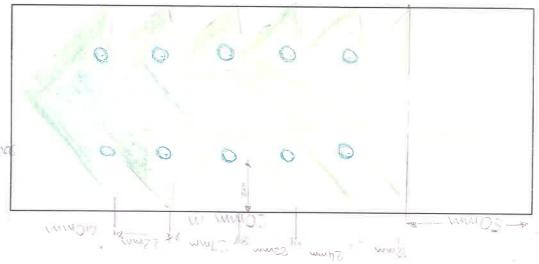
effectiveness of the final prototype.

Pupil has followed a design process and created a template including

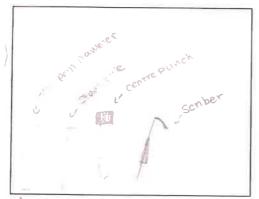
Pupil has created a template for use in the workshop and evaluated the

		mensions that were extrac		lution .
Function	Is my product fit for purpose?	Yes my product is fit for purpose because it matches the diagram with the	If I was to do it again would I change anything?	NO because of
Aesthetics	Does my final product look good? Has it turned out the way I wanted?	Yes because it matches the diagn	What finish did I apply to my product and why?	Spray Paint - good
Manufacture	Is my product made to a high stahdard?	Yes My productions a good over	Has my product been manufactured to the correct size?	Yes because a soul
Material	What material is my product made from?	alluminimum	What is good about this type of material ?	its easy to bend to create things easily.
Workshop Experience	Rate your workshop experience and how safely you worked out of 10	IO hocalise ich cut - ic Antis accumi ei and filed man	What went well and what will you improve on?	matching my sizes and i could improve on my sizes

TASK 2- MEASURE & MARK OUT DESIGN

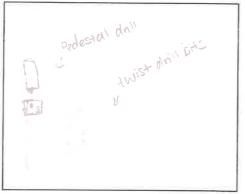


STRUCTURAL DAMAGE - PLAN FOR MANUFACTURE



Mark Out dimensions

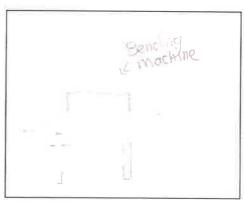
with Steel rule lenter punch,
ball pain hammer and Schoor.



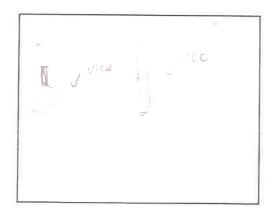
Set 100 drill with twist drill oits.



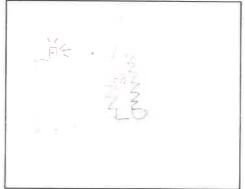
Cut tree Shapes out with - in snips and like Sharp



Use Bending Machine - o Make base.



File round edges with vice.



Spray Paint Finished

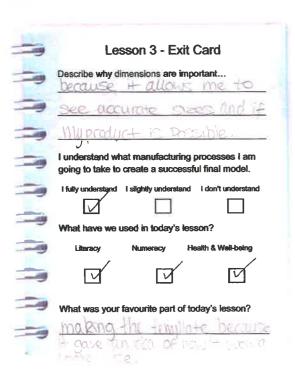
LI 4 demonstrated -

Pupil has created a detailed plan for manufacture that includes all relevant tools, equipment and steps needed to manufacture the final solution.

SC 3, 4 & 5 met -

Pupil has applied prior knowledge and understanding of metal working tools and equipment to manufacture a final solution.

Pupil has also been assessed on appropriate use of manufacturing tools and applying safety working practices.



Final Prototype Model





LI 3 demonstrated -

Pupil has created a card model to the size of the final solution.

Pupil has been given feedback and understand how to mark out centre points of drilling holes.

SC 6 met -

Pupil used card model in the workshop to reach a final solution.

-	Lesson 2 - Exit Card		
-	One thing I have learnt today is Now to annotate and Sketch		
-	designs in 20 and 30		
-			
-	I can produce a range of ideas and understand how to annotate.		
-	I fully understand I slightly understand I don't understand		
	What have we used in today's lesson?		
-9	Literacy Numeracy Health & Well-being		
-			
	What could I have improved on in today's lesson?		
-	Move annitations on different		
-	drawings		

Lesson 1 - Exit Card One thing I have learnt today is... I understand what a design feature is and how they impact on the user. I fully understand I slightly understand I don't understand What have we used in today's lesson? Literacy Numeracy Health & Well-being What possible products could my structural damage product hold?

Scanned Card Model

(Created at preliminary ideas stage)

