

Design Technology

Presentation, Marking and Feedback e-portfolio.



Rationale for marking and feedback in DT

- In Design Technology all pupils use an **e-portfolio** to record their progress across the year. This is a PowerPoint file that is stored on TEAMS that allows access anywhere anytime for pupils and staff.
- The e-portfolio showcases work that will include common assessments in designing, making and evaluating in each subject at keystone 3. Additionally, pupils will demonstrate their progress in each subject by producing extended writing tasks, annotate photographs of manufacturing and complete structured slides required for subject specific challenges.
- Expectations are published at the front of the e-portfolio and pupils are reminded routinely of our high expectations regarding the quality of all work.
- Feedback for pupils will be routinely verbal to encourage improvement, assessed work will be given an achievement award based upon if a pupil is not yet meeting, working towards, working at or exceeding with regard to the specific criteria for each year of keystone 3 in design & technology. Finally, excellent work or substandard work will be marked with the appropriate department award.
- Keystone 3 expectations are published in the pupils portfolio and through teacher modelling to allow pupils to fully understand what they are being assessed on and the criteria required.

E-Portfolio Expectations in DT: (this is in pupils portfolios)

- Keep **all** DT work in this portfolio- this is your **showcase** of all your fully finished high quality work.
- Please **do not** modify the portfolio- only add your work to the end slide. **No colour backgrounds** unless required by your teacher!
- Keep upto date with this portfolio and only keep **1 backup**.
- During assessments make sure you **action** the **feedback** routinely. Use **purple** writing to show improvement.
- Read the assessment page and ensure you have evidence for all 3 areas of assessment in DT, namely- Designing, Manufacture and Evaluating. Your Technical Knowledge will be assessed at the end of the unit as an online test.

Assessment & Feedback Guidance:

These are the DT learning tier **Assessment Awards**, your teacher will award during the year in each area of DT



Exceeding in DT



Working at in DT



Working towards in DT



Not yet meeting in DT

School Marking Codes:

Sp

Spelling Error

P

Punctuation Error

Gr

Grammar Error

//

Paragraph Error

A

Action

V

Poor Vocab

?

Does not make sense

A

Something missing

✓✓

Good work

E-Portfolio Assessment in Design Technology :

All 4 rotations in DT will have 3 formative assessments based upon: (they will be awarded one of the 4 learning tier outcomes these are aligned to the DT curriculum progression assessment structure)

1. Designing

2. Manufacture

3. Evaluation

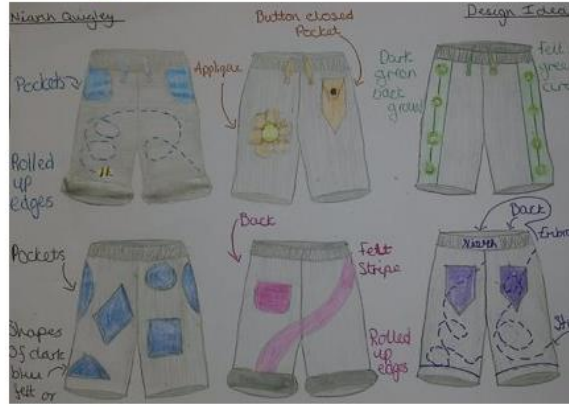
4. Finally a summative online assessment (test) will judge **Technical Knowledge** and include retrieval knowledge from previous rotations knowledge.

Each piece of work in the pupils workbook will be given verbal and written feedback where appropriate and independent work is produced

Work that meets our criteria for **excellence** will be stamped with the image below and equally **standard work** will be given the red image below



Design Assessment



This is my final design. For the design I chose to use the colour blue because my fabric has a blue undertone to it. I chose to add dark blue pockets and a light blue stripe. However now that I am making my shorts, I have realised that adding a stripe would be very difficult as when the side seams are sewn it makes adding applique harder. I feel like my shorts fit my design specification well as I still haven't added any buttons or a zip, so my shorts are still safe for children.



These are my initial designs. I have tried to use a range of different applique and pocket ideas as I knew that it would give me a lot of choices when it came to drawing my final design. I used a variety of different colours to see which one would go best with my fabric.

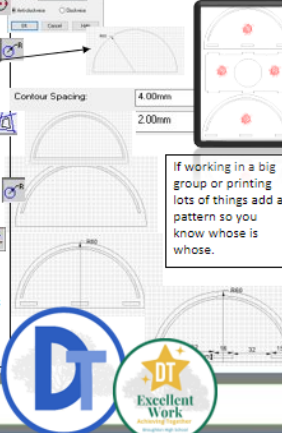
Textiles

Manufacturing Assessment

The laser is made up of natural light which has been concentrated into a point, it then cuts the material, and it heats up when it reflect of a magnifying glass. The laser vaporizes the material, and the gas is collected and disposed of safely. To cut a thick material we use a high power and a low speed. When cutting a thin material or engraving we use low power, high speed. We used red for engraving and black for cutting out. 8th March 2023

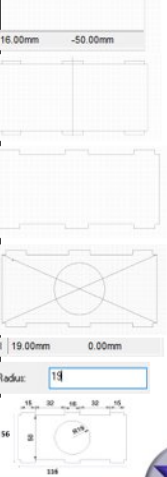
Semi-Circle:

1. Firstly, you will have to set up a grid. The grid will need to be 1mm by 1mm and your grid lock needs to be turned on.
2. Using the circle tool draw out a circle with a 50mm radius. You can either draw it and check in the REL box that it says 60mm and 0mm or you can right click the circle tool and type in radius 60mm.
3. Use the radius tool to find the center point of the circle. Then draw a straight line all the way across. You delete tool to delete the line so you just have a semi-circle.
4. Then use the contour tool and change the length to 4mm, click on the inside of the line and wait. Then repeat this step but with a gap of 2mm and clicking on the inside of the second line.
5. Then draw a line 10mm above the edge and delete so it looks like this. Then use the radius tool to find the center point of the semi-circle.
6. Then draw a rectangle 8mm away from the middle it needs to be 3mm up from the edge and 3mm wide. Then measure 32mm and draw another rectangle 3mm up from the edge. This time make sure it is 15mm. Copy all of this and paste it on the other side.
7. Then using the dimensions tool check everything is the correct length.



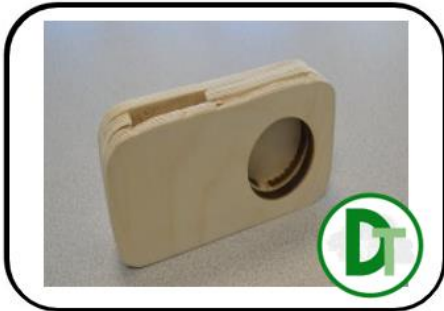
Rectangle:

1. First draw a 50mm by 116mm rectangle. Then draw a straight line 58mm in from the edge this is the middle.
2. Then copy and paste your rectangles from your semi-circle and make sure the center point lines up with the middle line. Do this on both the top and the bottom of the rectangle.
3. Then use the delete button to delete any unnecessary lines so it looks like this. Then draw two diagonal lines from each top corner. Where these lines meet is your middle point.
4. Then using either of two methods stated before draw a circle with a radius of 19mm. Make sure the center point of the circle lines up with the middle of the rectangle.
5. Then use the delete button so you just have one continuous shape with a circle in the middle. Then use the dimensions tool to check everything is precise.



Product Design

Design Technology showcase



Design Technology showcase

DT-Product Design: Project Night Light

02/12/22

Design Brief

To design a unique night light themed around the business IKEA. The product should be of a professional build quality using CAD and CAM. The product must be suitable for all ages

Specification

The product must **function** fully by incorporating a LED T-light.

It must be fully **self supporting** and use at least **3 different materials**.

The product must be capable of being **mass produced** using **CAD and CAM**

Conclusion

I want to include wood and acrylic in my work so I will look more unique to me and to others work including my own design and unique details. In number 4 I would want to use the shape and the color of the lamp. I like small details that are in number 3. For number 2 I like the effect that it's easy to put a candle in and easy to access that. For number 1 I like the shape and the color of the material used to make the shape.

① I like the shape and the patterned design on this night light because when you light it would make a pattern on a **surface** and it would not take up a lot of space.

② This light is like the other design because when you put a light into it, it would also make a pattern on the wall but for this one you put a candle in it and it's **easy to access** the center of it.

③ This light is made from **small details** to create a larger image creation and it's all generated in the small box underneath the design.

④ This like would make a **shadow** instead of a light outline because of the cover on it but because of the dark shapes and details.

Product Design