

YEAR 7 DESIGN AND TECHNOLOGY— TEXTILES PATHWAY

As part of DT carousel — approximately one term



Year 7 ILT

Health and Safety

General safety in DT rooms— presenting expectations, preventing accidents, defining **safety**, discussing how to be **safe**. Identifying risks, suggesting improvements.

Demonstrating safety in the classroom for practical tasks e.g. tools and equipment—scissors, pins, needles and iron. Iron is always supervised.

Designing

Topic Centred Design— Designing for a chosen in the **theme of biomimicry**. Design is tailored to student interest. Select an animal/plant, **research** and document key findings.

Consider a **number of ideas** using the facts researched to inform and inspire. **Explore** and **develop** ideas through **initial and finalised designs**.

Analysing example products to inform design. Using a **peer and self assessment/evaluation** to inform design choices.

Incorporating sewing knowledge within develop, finalised ideas, producing a **communicative piece**, displaying **product design and materials** to be used.

Specialist Technical Knowledge

Product design— design process mirroring a **design career** and specific observations of nature, **Biomimicry**,. Emulating a similar practise in the design field.

Work of others— example WAGOLL, presentation of previous work.

Key skills— analysing research to gain understanding and definition of **key techniques**. Teacher led **demonstrations** and guidance of **key basic skills**, filtering into **independent practise** and **final outcome**.

Wider research— **Exploring and developing understanding of biomimicry in textiles through ILT**. Gaining **cultural capitol** about the evolution of fabric to aid human life.

Planning and Making Skills (Realisation)

Modelling and trialling techniques—influence the choice and success of stitches and techniques used for the final outcome.

Reflection and development of design - peer and self review of ideas. Simple **modifications** based on analysis, evaluation and peer discussion.

Analysis and Evaluation

Self and peer analysis of practical work—identifying improvements, modifications and successes.

Use of **success criterion** to reflect on work during practise and post practise.

Written evaluation of design tasks and practical work.

Environment/Sustainability/Ethical Impact

Ethical impacts explored through the ILT—evolution of fabric to reduce environmental impact. Impacts learnt differs depending on student research choice.

Main bulk of fabric students used is donated and recycled—unwanted clothes .

Evaluation of Biomimicry in Textiles —

Researching what similar products are on the market allows us to assessing our own ideas. Evaluate the textile products and how biomimicry has been used, by answering the questions below.

1. What has been mimicked in these items? (remember mimic means copy)
2. What item has been created in the theme of biomimicry?
3. What do you like about it?
4. What would you change about it?

Example 1: Tiger
A tiger has been mimicked in this shirt. The item that has been created here is a shirt. The pattern almost perfectly mimics the stripes of a tiger. The colour of the shirt is a mix of orange and black. The stripes are very realistic. The design is very nice. It has been made with a soft fabric. It is very comfortable to wear. It is a great idea. I like it. I would like to see more of these shirts. I would like to see more of these shirts. I would like to see more of these shirts.

Example 2: Panda
A panda has been mimicked in this shirt. The item that has been created here is a shirt. The pattern almost perfectly mimics the black and white stripes of a panda. The colour of the shirt is a mix of black and white. The stripes are very realistic. The design is very nice. It has been made with a soft fabric. It is very comfortable to wear. It is a great idea. I like it. I would like to see more of these shirts. I would like to see more of these shirts. I would like to see more of these shirts.

Example 3: Sheep
A sheep has been mimicked in this shirt. The item that has been created here is a shirt. The pattern almost perfectly mimics the wool of a sheep. The colour of the shirt is a mix of white and black. The wool is very realistic. The design is very nice. It has been made with a soft fabric. It is very comfortable to wear. It is a great idea. I like it. I would like to see more of these shirts. I would like to see more of these shirts. I would like to see more of these shirts.

Textile techniques.

Use the information sheet to learn about and document key information about different textile techniques. Make sure to add illustrations!

Stitching:
A stitch is a loop of thread or yarn that is made by passing a needle through fabric. There are many different types of stitches, each with its own purpose. Some common stitches include: running stitch, backstitch, zigzag stitch, and French seam.

Embroidery:
Embroidery is a decorative technique that involves stitching designs into fabric. It can be used to create patterns, pictures, and text. There are many different styles of embroidery, including cross-stitch, crewelwork, and needlepoint.

Knitting:
Knitting is a textile technique that involves creating fabric by interlocking loops of yarn. It is used to create a wide variety of garments, including sweaters, scarves, and hats. There are two main types of knitting: hand knitting and machine knitting.

Wool:
Wool is a natural fiber that is used to create many different types of fabric. It is known for its softness, warmth, and durability. There are many different types of wool, including merino, cashmere, and superfine.

My key research findings:

My chosen animal/plant is... A parrot from a forest.

FACTS: Parrots are found in the warmest parts of the world. They can live for a long time - up to 80-100 years. They can fly up to 2000 ft high. They can sing and dance. They fly up to 15 miles each day in search of food. They eat fruit, seeds, nuts, and grains. They are very smart. They come from North and South America. They have powerful beaks and strong tongues to eat fruit. Some are in flocks of 20.

Great amount of facts.

Web sites looked at:
1. <https://www.parrots.com>
2. <https://www.parrot-advocates.com>
3. <https://www.parrot-advocates.com>

IMAGE BOARD

Add images/drawings/photographs below that could help inspire you:

My initial design ideas:

Four hand-drawn sketches of parrot designs, each with a brief description of the idea and a peer assessment.

Designation of idea 1: A parrot with a yellow body and red wings. I like the colors. It is a bright and cheerful design. I like the colors. It is a bright and cheerful design.

Designation of idea 2: A parrot with a blue body and green wings. I like the colors. It is a bright and cheerful design. I like the colors. It is a bright and cheerful design.

Designation of idea 3: A parrot with a red body and yellow wings. I like the colors. It is a bright and cheerful design. I like the colors. It is a bright and cheerful design.

Designation of idea 4: A parrot with a green body and blue wings. I like the colors. It is a bright and cheerful design. I like the colors. It is a bright and cheerful design.

Peer Assessment:
Feedback: I like the colors. Action: I like the colors. Response: I like the colors.

My final design:

A detailed hand-drawn sketch of a parrot, with a feedback table and a peer assessment.

Feedback Table:

Feedback	Action	Response
I like the colors.	I will use the colors.	I will use the colors.

Peer Assessment:
Feedback: I like the colors. Action: I like the colors. Response: I like the colors.

Excellent work!

Sewing Patch—Analysis & Evaluation

Evaluate your textile patch below:

What went well? Give reasons.
I think that my design and cutting it out of the fabric was I think this because I think my design looks very good and the colours on the design are right.

What have you learned from doing this project? What new skills have you learned?
In this project I have learned how to use a sewing machine, how to use a needle and thread, and how to use an embroidery hoop. I have also learned how to use an embroidery hoop.

What could you improve? Include detailed reasons and examples.
I think I could improve how I cut it out of the fabric. I think I could improve how I cut it out of the fabric. I think I could improve how I cut it out of the fabric.

What did you find difficult? Why was this?
I found it difficult to use the sewing machine. I found it difficult to use the sewing machine. I found it difficult to use the sewing machine.

Does your completed patch match your original design? Give reasons why or why not.
It mostly does. I think it is a good design. I think it is a good design. I think it is a good design.

