

Phase: 3/4

Subject: Design and Technology

Focus: Textiles

Term: Autumn

What I should already know?

I should have joined fabric in simple ways by gluing and stitching. I've used simple patterns and templates for marking out. I have evaluated a range of textile products

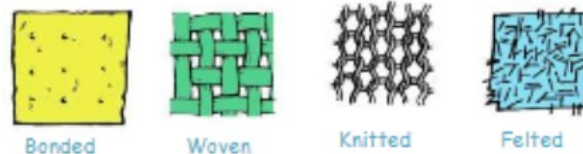
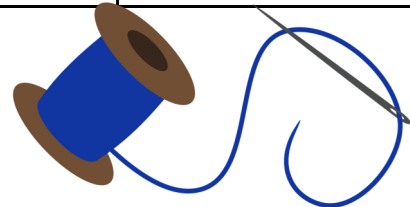
Vocabulary

Fabric	Cloth or other material produced by weaving or knitting fibres:
Fastening	A device that closes or secures something
Compartment	A separate section or part of a structure or container.
Stiffening	material used to stiffen a garment, fabric, or other object
Stitch	A loop of thread or yarn resulting from a single pass or movement of the needle in sewing, knitting, or crocheting.
Seam	A line of stitches that joins pieces of fabric together.
Seam allowance	Extra fabric allowed for joining together- usually 1.5cm
Appliqué	Means 'applied' - describes method of stitching/gluing patches onto fabric (originally to mend holes in worn clothes) to provide decoration.
Pattern/Template	A shape drawn to exact shape and size and used to assist cutting out.
Prototype	A model that is made to test whether a design will work.
Aesthetics	The way in which the product looks with the nature and expression of beauty.

THOUGHT	ACTION
Who is it for? What will it hold? e.g. phone, money, plastic cards, pencils.	Discuss ideas; create a list of likes and dislikes of the user Generate design criteria
What shape will the holder be? How will it fasten?	Investigate a range of templates/patterns and choose the most appropriate one for purpose Create initial design ideas
What fabric should I use?	Discuss and explore different fabrics suitable for purpose Possibly test fabrics for strength/waterproofness
Which joining techniques would be the best for the fabric and pattern?	Discuss and test out different joining techniques on mock ups Evaluate these against the design criteria
How can I make my holder aesthetically pleasing for the user?	Test out a range of decorative techniques and decide on the one/s which are appropriate
How long will it take to make? What tools will I need? What order should I do it in?	Create the holder following the design
Reflection and refining What isn't working very well? What could I improve on?	Make suitable adjustment during the making process Develop the plan during the making
Will my holder/purse/wallet fulfill its function? Is it suitable for the user?	Test out the product Make an evaluation with the user against the initial design criteria and design ideas

Types of Fabrics

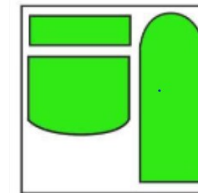
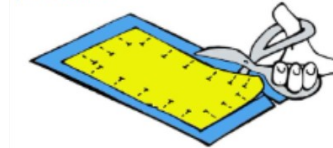
 Cotton	 Velvet	 Jersey	 Silk	 Wool	 Denim	 Satin
 Jacquard	 Linen	 Rayon	 Chiffon	 Chenille	 Baize	 Charmeuse
 Cheviot	 Dimity	 Drill	 Felt	 Twill	 Poplin	 Georgette



Knowledge

Cutting out techniques

Ensure template is secured to fabric to allow for accuracy. Double sided tape can be used instead of pins to do this.



Place pattern pieces carefully to avoid wastage.

Teaching aids - joining techniques



Back stitch



Backward running stitch



Over sew stitch



Blanket stitch



Running stitch

Decorative Techniques



Embroidery stitches e.g. cross-stitch



Appliqué by gluing or stitching

Possible fastenings



Buttons Velcro

By the end of the unit I should have..

- Generated realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose and specific user/s.
- Produced annotated sketches, prototypes, final product sketches and pattern pieces.
- Planned the main stages of making.
- Selected and used a range of appropriate tools with some accuracy e.g. cutting, joining and finishing
- Selected fabrics and fastenings according to their functional characteristics e.g. strength, and aesthetic qualities e.g. pattern.
- Investigated a range of 3-D textile products relevant to the project.
- Tested my product against the original design criteria and with the intended user, taking into account others' views
- Understand how a key event/individual has influenced the development of the chosen product and/or fabric.
- Learnt how to strengthen, stiffen and reinforce existing fabrics.
- Understood how to securely join two pieces of fabric together.
- Understood the need for patterns and seam allowances.

<u>Question 1 - In textiles, what is a pattern?</u>	<u>Start of Unit</u>	<u>End of Unit</u>
A series of pretty shapes put together		
A template to help you make your product		
Decoration		
Don't know		

<u>Question 2 - Name 3 different types of stitches</u>
Start of unit
End of unit

<u>Question 3 - What is a seam allowance?</u>	<u>Start of Unit</u>	<u>End of Unit</u>
Extra fabric allowed for joining together		
Where the stitch meets the edge of the fabric		
A piece of string or yarn		
Don't know		

<u>Question 4— Which of the following are fastenings? (Tick all that apply)</u>	<u>Start of Unit</u>	<u>End of Unit</u>
Velcro		
Zip		
Compartment		
Button		
Felt		

<u>Question 5—How could you 'Appliqué'? (Tick all that apply)</u>	<u>Start of Unit</u>	<u>End of Unit</u>
Stitching		
Gluing		
Knitting		
Buttons		

<u>Question 6— Why shouldn't you put the pattern in the middle of a piece of fabric?</u>	<u>Start of Unit</u>	<u>End of Unit</u>
To make sure your fabric is symmetrical		
To avoid waste		
Don't know		

<u>What I would like to find out?</u>

<u>Answers to my questions...</u>