



Design and Technology Knowledge Organiser

Year 6: Autumn Term – Textiles

Combining Different Fabric Shapes

Design, make and evaluate a mobile phone case to safely carry their own or a family member's mobile phone.



Key Knowledge

Learn this information

Key Skills

Practise and perform these skills

Key Vocabulary

Understand these key words

Types of Fabric:



Bonded



Woven



Knitted



Felted

Fabrics are constructed in different ways such as bonded, woven, knitted or felted. Different fabrics have different properties. They can vary in terms of their strength, waterproofness, flexibility, wear and tear etc.

Embroidery:

Embroidery is an ancient form of needlework that has been used worldwide to embellish textiles for decorative and communicative purposes. It involves stitching using thread directly on a material. A range of different decorative stitches can be used.



Applique:

Pieces of fabric in different shapes and patterns are added to a larger piece of fabric to create decorative designs.

Eye of the needle



Threading a needle:

Practise threading the cotton through the eye of the needle.

Using templates:

Ensure the template is secured to the fabric to allow for accuracy. Double sided tape or pins can be used to secure it onto the fabric.



Place pattern pieces carefully to minimise the wastage of the fabric.



Stitches:

Seams:

Use appropriate stitches to securely and neatly join materials together.

Using stitches as a finish for the product:

The children could design their finish for their product using a variety of appropriate stitches. They could draw enlarged examples of their ideas such as flowers or insects and then decide which stitch would be best for each part. Use square paper for a grid to ensure the stitches are in the right place and are the right size.

Stem stitch



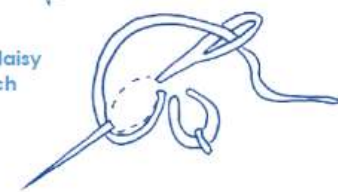
Satin stitch



Chain stitch



Lazy daisy stitch



Vocabulary	Definition
Applique	The craft of sewing fabric shapes onto larger pieces of material.
Embroidery	Decorating fabric with patterns or pictures sewn directly onto the material.
Fastenings	A device that closes or secures something.
Mock-Up	Quick 3D modelling using easy to work and cheaper materials and temporary joints. Useful for checking proportions and scale.
Pattern or Template	A shape drawn to exact shape and size, used to assist in cutting out fabric.
Reinforce	To strengthen.
Seam	A row of stitches joining two pieces of fabric.
Seam Allowance	Extra fabric allowed for joining together pieces of fabric. This seam allowance is typically 15mm for standard patterns.
Specification	Describes what a product has to do.
Tacking	Large running stitches to hold pieces of fabric temporarily together.
Wadding	Soft, thick material used to line fabrics in order to protect or give something shape.
Working Drawing	Detailed drawing which contains all information needed to make a product but is updated as changes are made.