



Design and Technology Knowledge Organiser

Year 4: Spring Term – Textiles

2D shape to 3D Product

Design, make and evaluate a rainforest bag for an explorer to carry things in.



Key Knowledge

Learn this information

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, flexibility, waterproofness, wear and tear etc.

Fastenings

A fastening is a device that closes or secures something. There are a range of different fastenings used for textiles. It should be appropriate for the purpose of the product.



Zip

Velcro

Clasp



Toggles

Ties

Buttons



Press studs

Key Skills

Practise and perform these skills

Eye of the needle



Threading a needle:

Practise threading the cotton through the eye of the needle.

Creating a Pattern:

Create a to scale paper pattern to use as a template to cut out fabric.

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.

Joining and Finishing Techniques:

Seams:

Use appropriate stitches to securely and neatly join materials together.



Back stitch



Backwards running stitch



Over sew stitch



Blanket stitch



Running stitch

Using stitches as a finish for the product:

Use different stitches for decoration.

Fastenings:

Choose and apply appropriate fastenings for your design ensuring it is secure.

Key Vocabulary

Understand these key words

Vocabulary	Definition
Aesthetics	The way the product looks.
Compartment	A separate section or part of a structure or container.
Fastenings	A device that closes or secures something.
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.
Stitch	A loop of thread which has been passed through fabric via a needle.
Working Drawing	Detailed drawing which contains all information needed to make a product but is updated as changes are made.