



Design & Technology

Textiles

Year 5

Autumn Term

Statutory Requirements

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
- select & use a wider range of materials and components according to their functional properties and aesthetic qualities
- investigate and analyse a range of existing products
- evaluate ideas and products against their own design criteria and consider the views of others to improve their work
- understand how key events and individuals in design and technology have helped shape the world

Textiles Opportunities

Textiles

- Create objects that employ a seam allowance.
- Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration).
- Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles.

Prior learning

Textiles taught in Year 1 and Year 3 with experiences of running stitch and back stitch and an understanding of seam allowances.

Experiences (e.g. draft excluders)

- Investigate different existing ideas on the market.
- Practice using practical sewing techniques e.g. blanket stitch, cross stitch, over stitch and recap running and back stitch.
- Create design ideas to meet needs of target market.
- Make basic product (prototype) and evaluate to decide on improvements for making final design.
- Evaluate the whole process continuously.
- Use CAD (e.g. make a template for applique shapes)
- Make own final product with improvements.

Vocabulary & Knowledge (Textiles)

applique	Using stitching and/or material to add to fabric to create a picture/design/motif.
seam	The line where two pieces of fabrics are joined together with stitching
Seam allowance	the extra materials left when joining /stitching 2 or more piece of fabric together (often 1.5cm/15mm)
fastening	Ways of joining or closing e.g. velcro, poppers, buttons, hook and eye.
hem	Folding back and stitching down the edge of the material.
pattern	A paper template used to measure and cut out the correct size/shape of material
motif	A decorative image or design

Additional Vocabulary: thread, tape measure, stitch, pins, needle, thimble, tailors chalk, binca

Key Vocabulary & Knowledge

decorative	To make something look more attractive
Functional	To serve a certain purpose
Aesthetics	Things to make products looks nice
Prototype / mock-up	A trial/test of a product before the final version.
Design specification	A list of criteria the final product should meet to be successful.

Additional vocabulary: user, purpose, functionality, design decision, innovation, authenticity.

Sewing techniques

Running stitch

<https://youtu.be/i1-B01FB56s>



Back stitch

<https://youtu.be/sjHm8CL9WDA>



Blanket stitch

<https://youtu.be/S9zegUYdPmg>



Over stitch

<https://youtu.be/gmD9vpo5Fso>

