

Design & Technology Knowledge Organiser

Year Six — Combining different fabrics

Designing, making and evaluating a belt for garden tools

An iterative process is the relationship between a pupil's ideas and how they are communicated and clarified through activity. This is an example of how the iterative design and make process *might* be experienced by an individual pupil during this project:

THOUGHT

- What are the features of a successful product?
- What features do I need to include in a functional, innovative and authentic product?
- What knowledge and skills do I need to be able to design and make a good quality product?
- How do I make a paper pattern for the product I want to produce?
- What design decisions do I need to make?
- How can I communicate my ideas for my product in an effective way?
- How will I show innovation?
- Who will be the user of my product and what are their needs, wants and values?
- What will be the purpose of my product?
- More thoughts... appraising, reflecting, refining.
- Does my product meet the needs and wants of the user?
- Is it appealing and does it fulfill a purpose? Is it innovative?

ACTION

- Researching, investigating, disassembling and evaluating existing products and consulting 'real life' designers.
- Investigating and practising using a range of methods to join fabrics together and making judgments about the strength and appropriateness of each technique.
- Practising finishing techniques and, if possible, learning to use a sewing machine.
- Creating a 2-D paper pattern with a seam allowance.
- Developing ideas through research, working drawings, computer-aided design, discussion, paper mock-ups and modelling.
- Thinking about the user and purpose and developing specifications for products.
- Formulating a clear plan of work and allocating tasks if appropriate.
- Constantly self-evaluating and making changes if the product is not fulfilling the specification.
- Testing final products with the intended user and making an evaluation of how successful they are.



Stitches

Stem stitch



Satin stitch



Chain stitch



Lazy daisy stitch



Teaching aids – fasteners

Children may want to use a fastener which should be appropriate for the purpose for the product.



Zip

Velcro

Clasp



Toggles

Ties

Buttons

Press studs

Key Vocab

seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces

name of textiles and fastenings used, pins, needles, thread, pinking shears, fastenings, iron transfer paper

Links to prior learning

Experience of basic stitching, joining textiles and finishing techniques.

Experience of making and using simple pattern pieces.