1. Year Groups

Years 3/4

2. Aspect of D&T **Textiles** Focus

2-D shape to **3-D product**

3. Key learning in design and technology

Prior learning

- Have joined fabric in simple ways by gluing and stitching.
- · Have used simple patterns and templates for marking out.
- Have evaluated a range of textile products.

Designing

- Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose and specific user/s.
- Produce annotated sketches, prototypes, final product sketches and pattern pieces.

Making

- Plan the main stages of making.
- Select and use a range of appropriate tools with some accuracy e.g. cutting, joining and finishing.
- Select fabrics and fastenings according to their functional characteristics e.g. strength, and aesthetic qualities e.g. pattern.

Evaluating

- Investigate a range of 3-D textile products relevant to the project.
- Test their product against the original design criteria and with the intended user.
- Take into account others' views
- Understand how a key event/individual has influenced the development of the chosen product and/or fabric.

Technical knowledge and understanding

- Know how to strengthen, stiffen and reinforce existing fabrics.
- Understand how to securely join two pieces of fabric together.
- Understand the need for patterns and seam allowances.
- Know and use technical vocabulary relevant to the project.

4. What could children design,				
make and evaluate?				
purse/wallet soft toy/mascot		apron		
fashion accessory	beach bag	shoe bag		

fasl pencil case story sack other - specify

4.

7. Links to topics and themes		
Celebrations	Festivals	Make Do and Mend
Holidays Su	Istainability	Containers
other – specify		

10. Investigative and Evaluative Activities (IEAs)

- Children investigate a range of textile products that have a selection of stitches, joins, fabrics, finishing techniques, fastenings and purposes, linked to the product they will design, make and evaluate. Think about products from the past and what changes have been made in textile production and products e.g. the invention of zips and Velcro.
- Give children the opportunity to disassemble appropriate textiles products to gain an understanding of 3-D shape, patterns and seam allowances.

Use questioning to develop understanding e.g. What is its purpose? Which one is most suited to its purpose? What properties/characteristics does the fabric have? Why has this fabric been chosen? How has the fabric been joined together? How effective are its fastenings? How has it been decorated? Does its decoration have a purpose? What would the 2-D pattern piece look like? What are its measurements? How might you change the product?

12. Focused Tasks (FTs)

Demonstrate a range of stitching techniques and allow children to practise sewing two small pieces of fabric together, demonstrating the use of, and need for, seam allowances.

- Allow children to use a textile product they have taken apart to create a paper pattern using 2-D shapes.
- Provide a range of fabrics children to consider whether fabrics are suitable for the chosen purpose and user. The fabrics also can be used for demonstrating and testing out a range of decorative finishing techniques e.g. appliqué, embroidery, fabric pens/paints, printing.
- Use questioning to develop understanding e.g. Which joining technique makes the strongest seam? Why? Which stitch is appropriate for the purpose? Which joining techniques are suitable for the fabric and purpose? How can you stiffen your fabric? What is the purpose of the fastenings? Which one is most suited to the purpose and user? What decorative techniques have been used? What effect do they have?

14. Design, Make and Evaluate Assignment (DMEA)

- Children to create a design brief, supported by the teacher, set within a context which is authentic and meaningful. Discuss the intended user, purpose and appeal of their product. Create a set of design criteria
- Ask children to sketch and annotate a range of possible ideas, constantly encouraging creative thinking. Produce mock-ups and prototypes of their chosen product.
- Plan the main stages of making e.g. using a flowchart or storyboard.
- Children to assemble their product using their existing knowledge, skills and understanding from IEAs and FTs. Encourage children to think about the aesthetics and quality finish of their product.
- Evaluate as the process is undertaken and the final product in relation to the design brief and criteria. The product should be tested by the intended user and for its purpose and others' views sought to help with identifying possible improvements.

5. Intended users

themselves friends family teachers children parents other adults other - specify

8. Possible contexts

school home leisure enterprise sustainability outdoor environment other - specify

to activities in 10, 12 and 14.

11. Related learning in other subjects

- Science physical properties of fabrics.
- **Spoken language** asking and answering questions to develop understanding. Through discussion, participate actively initiating and responding to comments.
- Mathematics nets of shapes and accurate measurements mm/cm.
- History investigating textiles and textile products from age being studied.

13. Related learning in other subjects

- **Computing** opportunity to create pattern pieces using a computer program.
- Mathematics nets of shapes and accurate measurement mm/cm.
- **Science** identify and compare the suitability of a variety of fabrics for particular uses.
 - Art and design investigating visual and tactile qualities of fabrics and using colour and pattern appropriately.
- Spoken language develop technical vocabulary. Give well-structured descriptions of e.g. finishing techniques.

15. Related learning in other subjects

- Art and design using a range of tools and decorative techniques. Develop sketching techniques
- **Computing** using software to produce pattern pieces and possible use for decorative techniques
- Mathematics accurate measurements mm/cm
- Spoken language consideration and evaluation of others' viewpoint.
- Writing written evaluation of their product, organising it under e.g. headings, subheadings.

6. Purpose of products

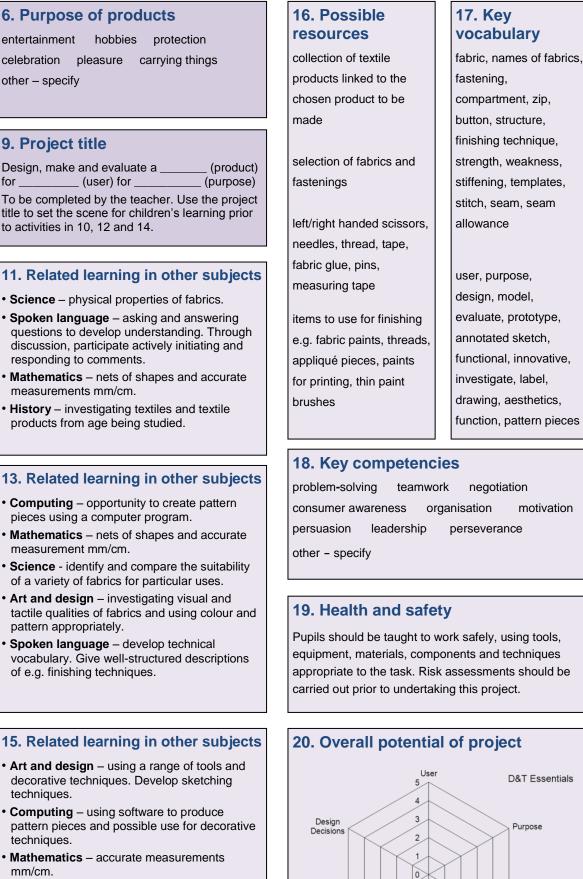
hobbies protection entertainment celebration pleasure carrying things other - specify

9. Project title

for

Design, make and evaluate a

(user) for



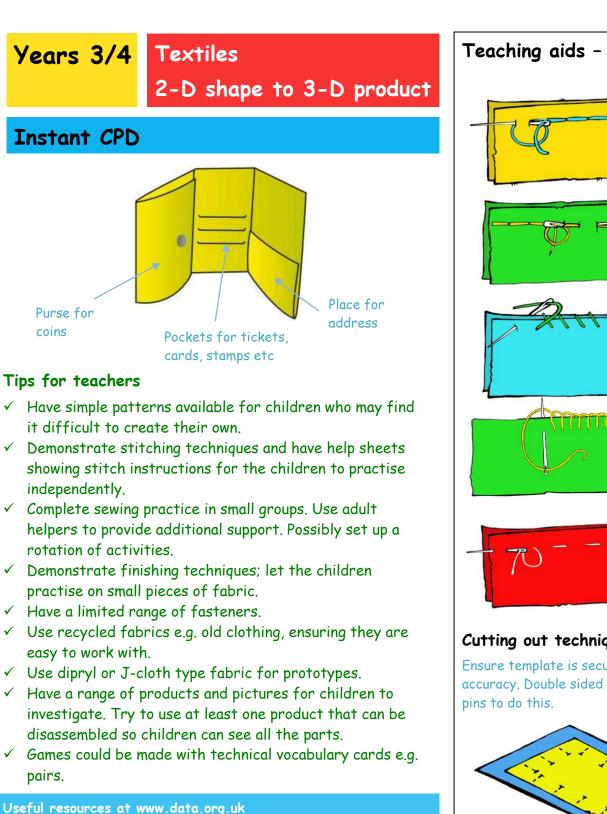


Authenticity

Innovation



Functionality



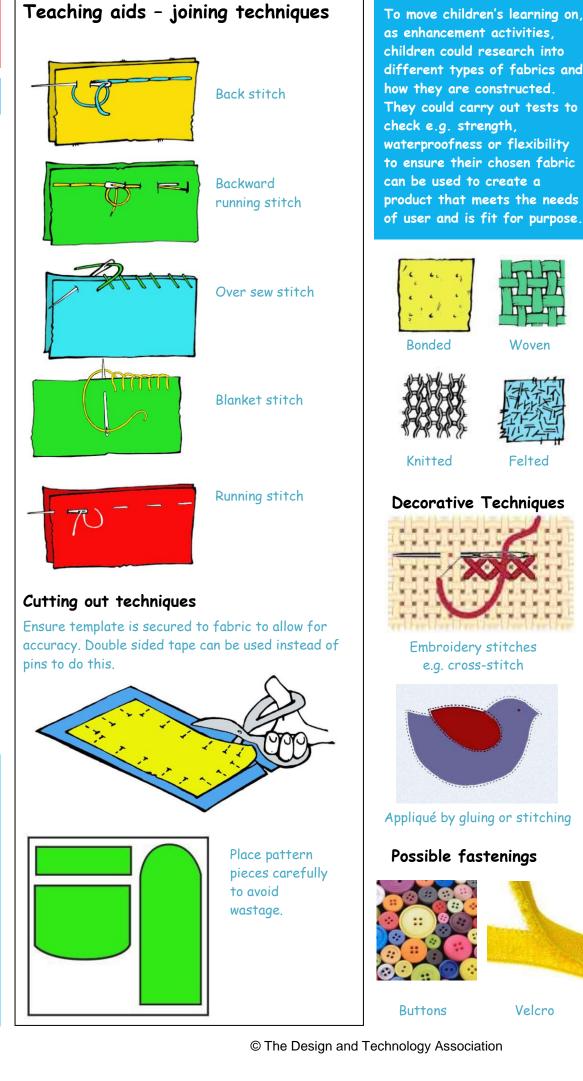
- Aprons
- Bendy bags
- Fancy a bag?
- Designing with textiles
- CPD Resources Primary INSET Guides

Other useful web-based resources:

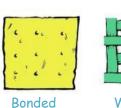
• http://education.staffordshire.gov.uk/Curriculum/Subjectarea s/DesignandTechnology/Primary/Support/Datafile/

D&T Association publications

- Primary Helpsheets Unit 4A Money Containers
- Primary Lesson Plans Unit 4A Money containers



To move children's learning on as enhancement activities, children could research into different types of fabrics and how they are constructed. They could carry out tests to check e.g. strength, waterproofness or flexibility to ensure their chosen fabric can be used to create a product that meets the needs





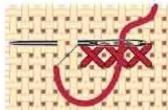
Woven



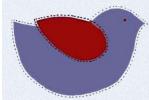
Knitted

Felted

Decorative Techniques



Embroidery stitches e.g. cross-stitch



Appliqué by gluing or stitching

Possible fastenings



Velcro

Designing, making and evaluating a holder/purse/wallet for a friend or relative

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

Who is it for? What will it hold? e.g. phone, money, plastic cards,

What shape will the holder be?

Which joining techniques would be the best for the fabric and

aesthetically pleasing for the

How long will it take to make? What tools will I need? What

What isn't working very well?

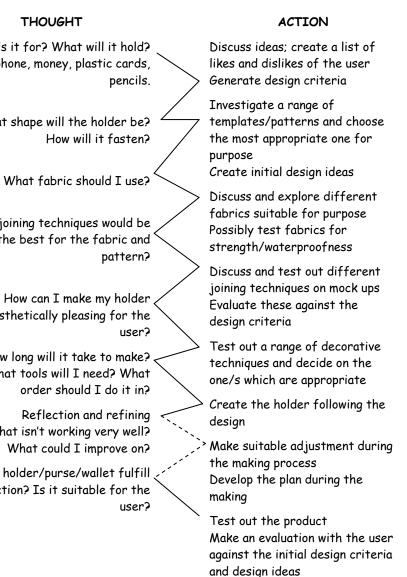
Will my holder/purse/wallet fulfill its function? Is it suitable for the

Glossary

- provide decoration.
- to assist cutting out.
- 1.5cm.
- expression of beauty.

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Textiles – Years 3/4 – 2-D shape to 3-D product



• Appliqué - means 'applied' - describes method of stitching/gluing patches onto fabric (originally to mend holes in worn clothes) to

Pattern/Template - a shape drawn to exact shape and size and used

Seam - a line of stitching that joins pieces of fabrics together.

Seam Allowance - extra fabric allowed for joining together - usually

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



