Aspect of D&T

2-D shape to

3-D product

Textiles

Focus

Health and safety

Cultural Capital

Visits and visitors

Year 12/13 textile

students from KLB

Community events

and links

Rollins

Clothes banks

Famous People

Annie Katsura

Prahlad Acharya

Seamstress

Key Texts

collection of textile products linked to the chosen product to be made

selection of fabrics and fastenings

left/right handed scissors,

needles, thread, tape, fabric glue, pins, measuring tape items to use for finishing e.g. fabric paints, threads appliqué pieces, paints for printing, thin paint brushes

Links

fabric, names of fabrics.

Key vocabulary

user, purpose, design, model, evaluate, prototype, annotated sketch, functional, innovative, investigate, label, drawing, aesthetics,

Possible resources

fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam allowance

Experiences and events.

https://www.data.org.uk/reso

years/designing-with-textiles/

https://www.data.org.uk/reso

Textile waste and its impact on

urce-shop/primary/7-to-9-

urce-shop/primary/7-to-9-

years/aprons-yr34/

Global issues

Life Skills

Creativity

the environment.

Problem solving

Perseverance

function, pattern pieces

What could children design, make and evaluate?

purse/wallet soft toy/mascot fashion accessory beach bag shoe bag story sack other - specify pencil case

Project title

Design, make and evaluate a _

(user) for

(product) (purpose)

Purpose of products

children parents other adults

friends

Intended users

themselves

other - specify

entertainment hobbies protection celebration pleasure carrying things other - specify

family

teachers

3. Key learning in design and technology

Prior learning

Year Groups

Years

- · 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
- Know and use technical vocabulary relevant to the project.

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
- 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?

- suitability of a variety of fabrics for particular uses
- Spoken language develop technical vocabulary. Give wellstructured descriptions of e.g. finishing techniques.

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
- 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.

15. Related learning in other subjects

- tools and decorative techniques. Develop sketching techniques.
- Computing using software to use for decorative techniques.
- Mathematics accurate measurements mm/cm.
- Spoken language consideration

subjects Science - physical properties of

11. Related learning in other

Pupils should be taught to work safely, using tools,

equipment, materials, components and techniques

carried out prior to undertaking this project.

appropriate to the task. Risk assessments should be

- Spoken language asking and answering questions to develop understanding. Through discussion, participate actively initiating and
- Mathematics nets of shapes and accurate measurements mm/cm.

responding to comments.

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
- Art and design investigating visual and tactile qualities of fabrics and using colour and pattern appropriately.

- Art and design using a range of
- produce pattern pieces and possible
- and evaluation of others' viewpoint.
- Writing written evaluation of their product, organising it under e.g. headings, subheadings.

