

Manor Primary School

Subject: Design & Technology — Textiles- Designing and making a bag

Autumn Term: Year 4

Overview of the Learning:

In this unit children will design and make a travel bag (football boots bag/ carry bag etc.) children learn how products e.g. bags are designed for different purposes and people. They learn that designers must address a range of needs when designing bags e.g. appearance, safety, comfort, practicality and size. Children learn about making accurate patterns/templates and detailed working drawings. They will understand the role of prototypes and how they are used to refine their design. They develop making and finishing skills to enhance the quality of their bags including the use of a sewing machine and hand sewing techniques to add embellishments and fastenings. They learn to evaluate their products critically against design criteria and identify what to do to improve them.

Core Aims

- Develop an understanding of how research can be used to create a design specification to ensure products are functional, appealing and are fit for purpose, aimed at particular individuals or groups.
- Develop an understanding of how to use a wide range of tools including sewing machines to join pieces of material accurately.
- Develop an understanding of how to select from and use a wider range of textile materials according to their functional properties and aesthetic qualities.
- Develop an understanding of how to strengthen, stiffen and reinforce their products using their knowledge of textiles and structures.
- 🌞 Develop an understanding of how textile products are launched and advertised.
- Develop an understanding of the skills of evaluation when investigating and analysing a range of existing products as well as their own.
- To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

Key Concept:

Textiles

Second Order Concept:

- 🌞 Responsibility
- 🏶 Signi ficance

Children should be taught:

Substantive Knowledge:

- What is a bag?
- 🌞 What are the basic parts (components) of a bag?
- What are the purposes of the basic components of a bag?
- What is the difference between functional and decorative bags?
- What is market research?
- What is a target audience?
- What is a prototype?
- What is a pattern/template?
- What is a seam allowance?
- What is advertising and marketing?
- What is the purpose of evaluating?

Procedural Knowledge:

- How do businesses use market research
- Now are different fastenings used in bags
- 🌞 How do different materials effect the practicability and suitability of a bag
- 🦊 How are bags (textiles) designed
- How are patterns drawn and annotated
- How are fabrics joined together using a sewing machine
- Mow are fabrics embellished
- 🤲 How are embellishments attached
- How are textiles advertised and launched
- How do we evaluate a product



- Similarity and difference
- 🌞 Written and Oral Expression

Prior Learning:

EYFS -

- 🌞 Select tools and techniques needed to shape, assemble and join materials.
- Discuss work as it progresses.
- 🌞 Discuss how closely finished products meet design criteria.
- 🌞 Begin to use scissors to cut straight and curved edges.
- Use technical vocabulary when appropriate.

Year I - Textile: Design and make a Christmas stocking.

- Safely and securely join textiles with hand sewing techniques using a needle and thread.
- Apply decorative techniques.
- 🌞 Evaluate against design criteria.

Year 2- Textile: Design and make an African purse/wallet/pencil case.

- Test and identify the suitability of textile materials ensuring they are fit for purpose.
- 🌞 Investigate ways of joining materials and strengthening their product.
- Create a design specification for a pencil case/money container using the market research and enquiry about Kenyan designs.
- Attach fastenings to the product using hand sewing techniques.
- * Create and evaluate a purse/wallet, money belt/ pencil case container against the specification and the needs of the target audience.

End Point:

- 🤲 Make quality textile products to meet the requirements of a design specification.
- Select materials for a purpose according to their functional properties and aesthetic qualities.
- 🌞 Know how templates and prototypes are used in product design.
- 🌞 Understand how textile products are launched and advertised.
- 🌞 Evaluate product identify future improvements and the impact.

Future Learning

How do we use evaluations to inform and revise a product

Designing and developing ideas

- Observe and explore and generate ideas, define problems and pose questions in order to develop investigations and products.
- Take ownership of the whole design process: carrying out market research, designing, creating a prototype, making improvements, creating an end product and evaluating.
- To identify the needs of the end user by exploring the existing market and asking questions about what bags are popular and why and where there are gaps in the market which could generate a profit.
- Children will become familiar with how to create a design specification with the needs of the end user in mind taking into consideration the results of their market research. Communicate and model in order to explain and develop ideas, share findings and conclusions.

Making Quality Products

- Apply practical skills to design, make and improve textile products safely, taking account of users and purposes.
- To create a prototype of a bag identifying how the pattern fits together and understand the importance of this in the design process.
- 🌞 To use a sewing machine safely in order to create a high quality finished product.
- To understand how fastenings such as buttons, zips and press studs are attached for functional purposes.

Evaluate Products and Processes

- To continually make systematic evaluations when designing and making, to bring about improvements in processes and outcomes.
- Evaluate the end product against the design specification and the needs of the end user.
- Identify successes and suggest improvements during and after the design and making process.

Technical Knowledge

Develop a range of hand and machine sewing techniques.



🔭 Textiles- Designing and Making a tablet/IPad case (CAD)- Year 5

Outcomes

- 🌞 Examine a range of existing bag products and identify the purpose, suitability appearance and function and how the bags have been assembled.
- 🤲 Carry out market research including questionnaires to find out about the products that are available to buy, gaps in the market and the needs of the end user.
- we Identify the suitability of materials ensuring they are fit for purpose.
- Create a design specification for their own bag using the market research.
- To create a pattern and prototype using their design specification.
- 🔭 To use a sewing machine to create a bag of their own design joining the seams neatly to create a high quality finished product.
- 🌞 To use attach fastenings to the bag.
- 🧚 To advertise their product.
- 🌞 To evaluate the bag against the design specification and the needs of the end user.
- Suggest improvements during and after the design and making process.

Cross Curricular links:

- * Art & Design: Mosaic Patterns
- P.E. Swimming- exercise bag
- * Maths: Measuring textiles accurately

Building Cultural Capital

Children will explore **a** range of fabrics and textiles. They will design and make their own designer bag (bag for specific purpose, PE Kit/Football Boots bay/handbag etc.) They will make their own pattern, make their own bag and evaluate it. Exploring product launching and advertising in textiles.

Learning Objectives	Suggested Learning Opportunities	Vocabulary	Resources and hooks for learning.
To investigate a range	Substantive Knowledge:	Fabric-cloth or other material	Range of bags; PE bags, Football boot
of existing textile	What is a bag?	produced by weaving or knitting	bags, travel bags
products	What are the basic parts (components) of a bag?	fibres names of fabrics	Selection of fabrics and fastenings
	What are the purposes of the basic components of a bag?		
To explore how the	What is the difference between functional and decorative bags?	Fastening – In textile design,	
properties of a		fastenings are the objects used	
material match a	Procedural Knowledge:	to hold a garment together.	
purpose.	How are different fastenings used in bags?	While they can be permanent,	
	How do different materials effect the practicability and suitability of a bag?	they are generally built to	
To identify the		fasten and unfasten the textile	
different aspects of	🐡 Explore a range of bags (PE Bags/ shopping bag/ football boots bag). Identify	numerous times	
textile product design.	the purpose of each bag and the intended audience.	compartment	



To know that products
are designed for a
particular purpose and
are suitable for
different users.

Focus exploration upon:

- I. Component parts of a bag-handle, main body, opening, fastenings, pockets.
- 2. The different types of fabrics used and how the material suits the purpose e.g. a stiff material, waterproof, flexible, wear, strength, comfort etc.
- 3. Attachments how the fabric is joined at the seams, how the handles are joined link back to prior learning on sewing.
- 4. Fastenings pull strings, buttons, zips, and press studs.
- 5. Appearance How is the bag appealing to the intended audience? Embellishments sequins, transfer, fabric pens, sewn details.
- Discuss the suitability of the bags for different users and their different purposes. Distinguish between bags that are functional and those that are purely decorative.
- ldentify the key aspects that a designer needs to consider when designing products appearance, function, cost and safety when designing products;
- Use sketching/annotated diagrams from different orientations to show important points in a specification that the designer might have worked to.

Zip Button

Embellishments – Textile embellishment refers to the process of adding color, pattern, texture or design to fabric through the use of outside mediums such as thread, ribbon, sequins, yarns, buttons, buttonholes and more. Sequins
Transfer

Range of PE bags, Football boot bags, travel bags
Selection of fabrics and fastenings
Examples of market research questionnaire using open and closed

questions.

To investigate a range of existing textile products.

To collect information in order to create a design specification.

To investigate the needs of the end user.

Substantive Knowledge:

What is market research? What is a target audience?

Procedural Knowledge:

How do businesses use market research?

- Sticky Knowledge What are the basic parts (components) of a bag? What are the purposes of the basic components of a bag? How do different materials effect the practicability and suitability of a bag?
- Provide context for unit- Children have been asked to design a bag for the Next spring collection.
- Explain market research must be carried out in order to identify gaps in the market and to find out what will sell well.
- Discuss the use of questionnaires, visiting shops, looking through magazines to see what is available on the market, what is popular and where there are gaps.

Market research - the action or activity of gathering information about consumers' needs and preferences.

Target Audience- A Target audience is a group of consumers which can be identified as purchasers of a company's product or service.

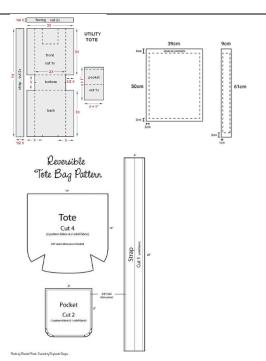


	Carry out market research in the style of the apprentice. Develop children's		
	use of open and closed questions to gain relevant information from their		
	surveys.		
To learn how to pin,	Substantive Knowledge:	Seam	Range of fabrics
sew and stitch	What is a seam allowance?	Seam allowance- Seam	Board for skill board
naterials together to		allowance (sometimes called	Sewing Machine
reate a product.	Procedural Knowledge:	inlays) is the area between the	Thread, scissors, pins, measuring
	How are fabrics joined together using a sewing machine?	fabric edge and the stitching	tape, needles
To learn how to	How are fabrics embellished?	line on two (or more) pieces of	'
mbellish a product.	How are embellishments attached?	material being sewn together	Range of fastenings-zips, buttons
		Embellishment- Textile	press studs, drawstrings.
To learn how to	Sticky Knowledge — What are the purposes of the basic components of a bag?	embellishment refers to the	Range of embellishments — fabric
ittach fastenings.	How do different materials effect the practicability and suitability of a bag?	process of adding color,	paint, sequins,
	Deconstruct a bag with children, examining how the seams are sewn, how	pattern, texture or design to	
	handles are attached, different sewing techniques used and how any	fabric through the use of	Pinning techniques-
	embellishments have been attached.	outside mediums such as	Nesting-
	Explain how when designing a seam allowance needs to be accounted for of I—	thread, ribbon, sequins, yarns,	
	1.5cm to enable the material to be joined.	buttons, buttonholes and more.	
	Create a textile skill board showcasing the following skills;		
	How to pin fabric allowing minimal wastage e.g. by nesting, lay planning.	Stitching techniques-	¥.
	Sewing embellishments — running stitch, blanket stitch, back stitch, cross	Running stitch-	
	stitch.		
	Sewing material using the sewing machine. Demonstrate how to stitch right		Lay planning-
	sides together, to snip curved edges, to tack wadding to fabric (use of an		Selvages -
	eyelet punch should be shown if bags are to be laced together).		Selvages
	Consider different techniques for adding colour, pattern and texture to the	uSocilariti sakolm	
	fabric e.g. embroidery, simple appliqué, use of sequins, use of fabric paints.	Back stitch-	P
	Explore a variety of fastenings work e.g. zips, press studs, drawstrings,		se fo
	buckles, buttons etc.	BACK STITCH	DO WS of pattern
			WS of pattern
		0.0002-0001 (administrations)	Selvages -
		Blanket stitch-	



		Blanket stitch	
		Pinning techniques-	
		Nesting	
		Lay planning	
		Fastenings-	
		Zip	
		Press stud	
		Drawstring	
		Button	
To understand that	Substantive Knowledge:	Prototype-Textile prototyping is	Fabric
pattern/templates can	What is a prototype?	the process of bringing a	Squared paper
be used many times	What is a pattern/template?	concept or idea for any sewing	Example of templates
and this ensures		or fabric-based need to life so	Sewing Machine
consistency in size.	Procedural Knowledge:	that an end product can be	Thread
	How are bags (textiles) designed?	brought to market.	Scissors
To develop a design	How are patterns drawn and annotated?	Pattern-First, patterns, or	Pins
specification.		garment patterns, can be a	Measuring tape
	Sticky Knowledge — What are the purposes of the basic components of a bag?	template from which parts of	Needles
To understand that	How do different materials effect the practicability and suitability of a bag?	a garment are traced onto	
ideas for products can	Children to design their bag thinking about the intended audience. Children	fabric before cutting and	
be developed by editing	to consider the use of fabrics, embellishments, fastenings and handles.	assembling	
a prototype.	Show children a pattern/template for a bag discuss the dimensions	Annotated sketch	
	(emphasise the importance of size and how this many change if	Design	
	measurements and cutting isn't accurate) consider the economical use of		
	fabric. Reinforce the need for seam allowance.		
	Children to design their bag and create a template using squared paper.		





- Children to create a prototype of the bag thinking about the size and shape of the bag and the dimensions needed. Discuss the purpose of a prototype and how it can be used to refine design ideas.
- Children to create their prototype using paper or inexpensive materials.

 Children to evaluate their prototype and discuss any potential changes that are required.



Children to write a step-by-step plan or draw a flow chart to demonstrate the order in which they will proceed based on their findings from their prototype.



To sew a bag using	 Check that the children's final idea and construction is realistic before they begin. Class management -A key aspect of this unit is for children to be able to design and use their own pattern/template. Some children may experience difficulty in designing their own patterns/template and will therefore need support. Have a prepared pattern of a bag for children who have difficulty making their own. Children could use inexpensive and easily worked material. Cut fabric to manageable sizes for the children to use. Substantive Knowledge: 	Seam	Range of fabrics
permanent joining	What is a seam allowance?	Seam allowance- Seam	
techniques. To follow a pattern to create a bag. To understand how to achieve a quality product.	What is a pattern/template? Procedural Knowledge: How are fabrics joined together using a sewing machine? How are fabrics embellished? How are embellishments attached? ** Sticky Knowledge — What is a seam allowance? What is a pattern/template? ** Prior Knowledge- Children have used hand sewing techniques such as back stitch, running stitch and blanket stitch. ** Re-model and demonstrate how to use a sewing machine to join materials, ensuring the seams are neat in order to produce a high quality end product. Model and demonstrate how fastenings can be attached. ** Children to create their bags by cutting the required pieces and assembling using a sewing machine. ** Children to use hand stitching to add any additional decoration to their bags. ** Remind children to evaluate their product as they are constructing it and make appropriate changes accordingly giving reasons. Health and safety When carrying out a risk assessment for this activity, teachers will need to consider the materials, tools and equipment being used. In addition, the following points should	allowance (sometimes called inlays) is the area between the fabric edge and the stitching line on two (or more) pieces of material being sewn together Embellishment—Textile embellishment refers to the process of adding color, pattern, texture or design to fabric through the use of outside mediums such as thread, ribbon, sequins, yarns, buttons, buttonholes and more. Stitching techniques—Running stitch— Back stitch— Back stitch—	Sewing Machine Thread, scissors, pins, measuring tape, needles Range of fastenings- zips, buttons, press studs, drawstrings. Range of embellishments — fabric paint, sequins,
	be noted:		
	1 22 133 133		



	children using sewing machines should be supervised.	Blanket stitch- Blanket stitch Pinning techniques- Nesting Lay planning Fastenings- Zip Press stud Drawstring Button	
To know how textile products are advertised. To understand the importance of product launching.	Substantive Knowledge: What is advertising and marketing? Procedural Knowledge: How are textiles advertised and launched? Prior Knowledge — Children have explored packaging. Discuss with children how textiles are launched. Introduce the concept of catwalks and product launching/advertising via a range of media — TV, social media, billboards, catalogues etc. Discuss the reasons behind advertising and what makes an effective advert. E.g. to raise awareness, increase profits, celebrity endorsement. Explore existing advertising for bags. Children to take part in a Next Spring Collection Launch catwalk to launch their designer bag onto the market. In addition children could create a short video advert or poster to launch their product.	Advertise Catwalk Product Launch	A range of current bag advertisement, https://www.vogue.com/fashion-shows/fall-2022-ready-to-wear/bottega-veneta Explore a range of current catwalk shows.



To evaluate the finished design against the specification.

To carry out a questionnaire to gather the opinions of potential end users.

To identify areas for development

Substantive Knowledge:

What is the purpose of evaluating?

Procedural Knowledge:

How do we evaluate a product?

How do we use evaluations to inform and revise a product?

- Sticky Knowledge What are the purposes of the basic components of a bag? How do different materials effect the practicability and suitability of a bag?
- * Prior Knowledge Children have developed skills in identifying strengths and areas for improvements in their products.
- Children to design a questionnaire to gather the opinions of the potential end users. What do they like about the bag? Would they buy this bag? What would they change (if anything)? Children to use a range of open and closed questions to seek opinion.
- Children to take into consideration their original design specification and the end users opinions and evaluate their product explaining what changes they have made along the way and why, what went well and what they could do to further develop the bag.
- Children to reflect on the skills develop across this unit linking back to their prior textile learning and considering how the sewing skills learnt could be applied elsewhere.

Evaluation

User

Purpose

 ${\sf Success}$

Improvement

Impact

Preference