

Year 3/4 Design and Technology Knowledge Organiser

Term 4/5- A 2D shape into a 3D product.

Key Skills:

Designing: Build ideas through discussion and investigation with peers and adults and create a design criteria including functionality, appearance and efficacy.

Making: Plan the stages of making and reflect on working making adaptations as you go. Make a protective phone pouch using a range of joining methods.

Evaluate: Perform product tests and evaluations with peers. Collaboratively design a consumer questionnaire.

Technical Knowledge: Understand the construction and properties of textiles as well as how to stiffen and modify them for a purpose. Understand how to join two pieces of fabric together and the need for patterns and seam allowances.



Textile Construction: Textiles are made in different ways which impacts their properties.



Bonded



Woven



Knitted



Felted

Vocabulary:

Fastening: The method of holding something closed, buttons, zip, Velcro.

Stiffening: A method to make fabric more rigid, could be done using felted fabrics.

Seam Allowance: A centimetre of fabric left outside of sewing to allow for fraying or strength.

Function: The purpose of a product, what it does.

Prototype: A small model of the product.

Joining Techniques:

Running Stitch	
Back Stitch	
Oversew Stitch	
Blanket Stitch	

Careers:

Textile Design	Interior Design
Apparel Design	Project Design
Textile Construction	Tailoring

Properties of Textiles:

stretchy	durable	soft	thick
thin	coarse	shiny	drapes
warm	cool	absorbent	rigid