


Y9 Product in a Tin Competition Knowledge Organiser

Recall Textiles Techniques

-  Tie Dye
-  Applique
-  Molar
-  Pin Tucks
-  Sisha
-  Block Print
-  Fabric Crayons
-  Machine embroidery
-  Hand Embroidery
-  Transfer Print
-  Batik

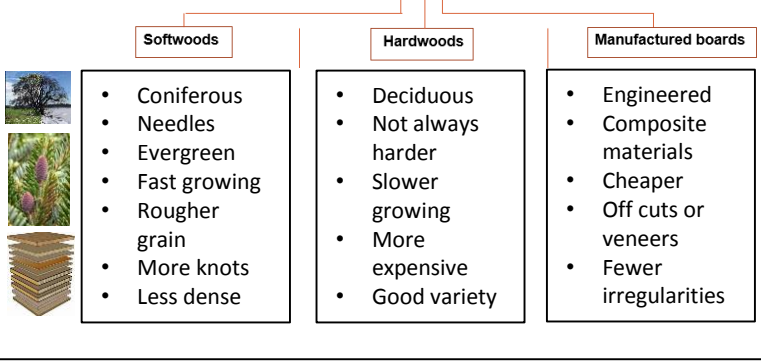
The Sewing Machine



1. Place fabric under needle.
2. Wind needle down.
3. Gently lower presser foot.
4. Switch on machine.
5. Sew with fingers at front and good speed control.
6. Lift needle out by winding the hand wheel towards you.
7. Pull out behind.
8. Cut threads and make sure the ends are on the desk.

How to thread the machine

Wood

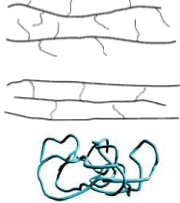


Plastics (Polymers)

Thermoplastic can be reheated and reshaped. Can be recycled.

Thermoset are cured (set) using heat. Cannot be reshaped once cured. Harder to recycle.

Elastomers can be either thermoset or thermoplastic. They have a stretchy and rubbery quality.



Example



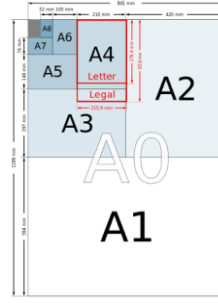
Paper and Card

GSM = grams per square meter

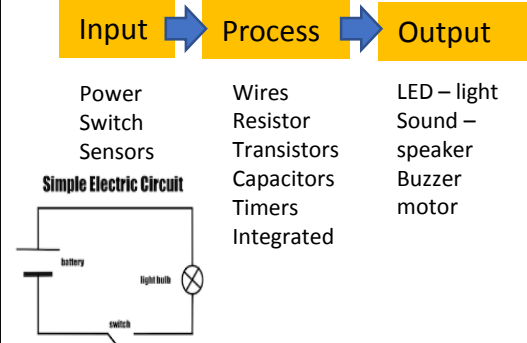
Paper – usually around 72gsm

Card/Thick paper – Usually Around 120gsm – 200gsm

Board is measured in microns



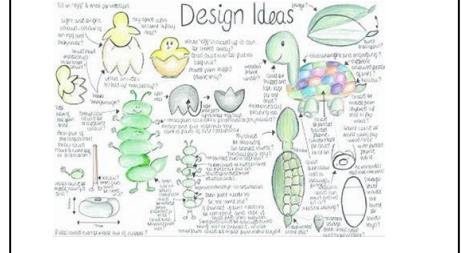
Electronics



Keywords in textiles

- A Applique / Aesthetics
- B Buttons / Batch production / Batik / Bonded fabrics / Breathable fabrics / Biodegradable / Bobbin
- C Cotton / CAD CAM / Components / Colour / Construction
- D Decorative stitches / Design / Dyeing / Disassembly
- E Design brief / Durability
- F Embroidery / Evaluation / Elasticity / Eco-Design
- G Embellishment / Embossing /
- F Fibres/ fluorescent fabrics / Functionality / Fabric crayons
- Fastenings / Felt / Flammability
- G Gathering / Grading
- H Hand stitching / Health & Safety / Hems / Handle
- I Ideas / Interfacing / Inspiration / Inks / Iron
- L Lace / Laminated fabrics / Leather / Linen
- M Machine stitching / Microfibres / Manequin / Mood boards
- N Natural fibres / Natural fibres / Needles / Nylon
- O Overlock / Organic
- P Patchwork / Pattern / Pattern cutting / Pile / Phosphorescence
- Pigment / Polyester / Pocket / Pleat / Printing / Pressing
- R Recycling / Regenerated fibres / Research / Rayon / Reflective
- S Satin / Scissors / Sustainable / Screen printing / Sewing machine / Shade / Stencil
- T Tailors chalk / Tape measure / Testing / Texture / Threads /
- Tie-Dye / Trends / Tolerance / Tailored / Transfer printing
- W Weave / Webbing / Wool / Water-proofing
- Z Zip

Design Ideas


















CAD/CAM

Computer Aided Design
Computer Aided Manufacture



Equipment & Key Terms

Needle		Used to hand sew fabric and creating embroidery designs. The 'eye' of the needle is where the thread is fed through.	Over locker		A electrical machine that neatens the edge of fabric to prevent fabric from fraying.
Pins		Used to hold fabrics in place when sewing, with an 'in/out' motion.	Aida Fabric		Fabric used to create embroidery designs.
Machining Thread		Used to sewing fabrics together, either by hand or with a sewing machine.	Pattern		Used as a template for cutting out pieces of a textile product.
Fabric Shears		Used to cut fabrics and threads only, not paper.	Seam Allowance		Added to pattern to ensure that the products ends up in the correct size.
Embroidery Scissors		Used to cut delicate work into fabrics and trim threads.	Fabric		Used to create a range of different products, including toys & clothing. Comes in a range of different lengths, widths, colours, finishes & patterns. Can be either Natural or Man-made.
Embroidery Thread		Comes with 6 threads intertwined that can be 'split' to reduce the thickness. Used to create decorative stitches on products.	Ironing/Pressing		Method of removing creases from fabrics to give products a better finish.
Sewing Machine		A electrical product that is used to sew fabrics together securely. The machine can produce a range of stitches including straight & zig-zag.	Design		A process that is completed to communicate your ideas clearly.
Tape Measure		Used to measure fabrics and the human body to help make patterns accurate to the desired size.	Colour Wheel		Using knowledge of colour to make your product stand out and appeal to others.