

Year 9 Design & Technology

Compliant materials

Textiles- Is a flexible piece of material made by creating an interlocking network of yarns or threads, which are produced by spinning raw fibres into long and twisted lengths. Textiles are then formed by weaving, knitting, crocheting, knotting, tatting, felting, bonding, or braiding these yarns together.



Can you EXPLAIN the key differences between resistant and compliant materials. Consider the processes involved in manufacturing these materials

Fabric Embellishments



Here are some examples of fabric embellished items. Fabric Embellishments include; Batik, beading, embroidery, screen printing, direct application (fabric pens, crayons, paints), Applique, heat transfer.

Fabric Embellishments- This is where you decorate your fabrics using different methods such as beading, printing, embroidery

Why do people embellish their textiles items such as T-Shirts and bags?
Please explain.

Natural Fabrics

Cotton
From the cotton plant

Properties and end-uses of natural fibres

Cotton



Properties

- Cool to wear
- Very absorbent, dries slowly
- Soft handle
- Good drape
- Durable
- Creases easily
- Wash and iron

Linen



Properties

- Fresh and cool to wear
- Very absorbent, fast drying
- Stiffer handle
- Good drape
- Durable
- Creases badly
- Wash and iron

Linen

From the Flax plant

Wool

From animals including Sheep, Llama, Rabbit, Camel

Wool



Properties

- Warm to wear
- Absorbent, dries slowly
- Breathable, repels rain
- Soft or coarse handle
- Can shrink - dry clean
- Good drape
- Not durable
- Creases drop out

Silk

Originates from the silkworm

Silk



Properties

- Warm to wear
- Absorbent
- Soft handle
- Good lustre and drape
- Durable
- Creases drop out
- Dry clean



Produce a chart similar to the 'Natural fabrics' for synthetic fabrics include; Viscose, Acrylic, Nylon, Polyester



What are the differences and similarities between natural and synthetic fabrics? Can you give examples?



Can you name the Fabric embellishments in the pictures provided?

