

Key words

Textiles
Needle
Thread
Embroidery
Fibre
Fabric
Weaving
Spinning
Bonding
Knitting
Source
Origin
Property

Hand Embroidery

Using sewing for decoration.

- Running stitch

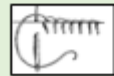


- Back stitch

- Chain stitch



- Blanket stitch



Applique

Creating a design on top of fabric, using contrasting fabric.



THE INDUSTRIAL REVOLUTION

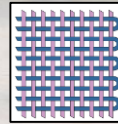
- Production changed from cotton industry to in big factories.
- Machines were invented that made fabrics easier to produce.
- Fabrics were made more quickly and at a lower cost
- Lancashire was the centre of the cotton industry.
- Working and living conditions were poor.
- Children worked long hours in poor dangerous conditions to support their families.

Damask Weaving

A type of weaving where a pattern is woven into the fabric.

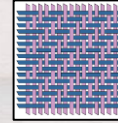


WEAVE PATTERNS



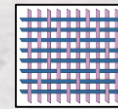
PLAIN

- Equal amounts of warp and weft.
- Used for fashion & furnishing fabrics



TWILL

- Diagonal effect
- Hardwearing, used for jeans, jackets etc.



SATIN

- Complex pattern. Long floating threads give a smooth often shiny effect.

Year 7 Textiles

Invention	Inventor	Date	Function
Flying Shuttle	John Kay	1733	Increased speed of weaving, caused need for new spinning machines
Spinning Jenny	James Hargreaves	1764	Performed 8 times more quickly
Water Frame	Richard Arkwright	1769	A water wheel powered spinning frame.
Spinning Mule	Samuel Crompton	1779	A combination of the spinning jenny and the water frame. Different thicknesses of yarn could be spun.
Cotton Gin	Eli Whitney	1794	Separated cotton from seeds.

FABRIC CONSTRUCTION

Fabrics can be woven, knitted or bonded(non- woven).

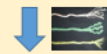
WOVEN FABRIC

FIBRE



SPINNING
(Twisting)

YARN



WEAVING

FABRIC



ORIGINS OF FIBRES

FIBRES

NATURAL

MAN-MADE



ANIMALS

Wool from sheep
Silk from silkworms



PLANTS

Cotton from cotton plant
Linen from flax plant



SYNTHETIC

Polyester from coal
Acrylic from oil



REGENERATED

Processing cellulose
Satin from rayon

L. S. Lowry - Artist

- Grew up in Pendlebury, Salford
- Captured industrial scenes in his paintings
- He is famous for his simplistic style and muted colours.

