

Fashion Design Studio

unit 3:

- Textiles & Fibers
- Fabric Construction
- Fabric Finishes
- Hang Tag vs Label

Natural Fibers

General Characteristics:

- 1.**
- 2.**
- 3.**

Attach foldable here

Manufactured/

Synthetic Fibers

General Characteristics:

- 1.**
- 2.**
- 3.**

Attach foldable here

Fabric Samples

Name: _____

Class: _____

Cotton

Linen

Wool

Silk

Felt

Nylon

Polyester

Acetate

Acrylic

Rayon

- Natural
- _____ Non-Woven
- - - - - Synthetic

Spandex

Paper Weaving Instructions

Materials Needed:

- Paper Weaving Template
- 15 Strips of Colored Paper -5 each of 3 different colors-(5 for each basic weave)
- 4 Strips of White Paper-(used to divide each basic weave)
- Scissors
- Clear Tape
- Marker

Instructions:

1. Obtain all supplies listed above. Write your name at the top of the paper weaving template.
2. Cut the paper weaving template, following each of the solid lines from bottom to top, stopping at the horizontal line at the top of the paper.
3. Beginning with the plain weave, weave 5 strips of colored paper using the following instructions:

A. Plain Weave

* = Repeat what is in the parentheses

Row 1: (Under 1, Over 1)*

Row 2: (Over 1, Under 1)*

Row 3: (Under 1, Over 1)*

Row 4: (Over 1, Under 1)*

Row 5: (Under 1, Over 1)*

B. White Divider Strip:

* = Repeat what is in the parentheses

Row 1: (Over 1, Under 1)*

C. Twill Weave

* = Repeat what is in the parentheses

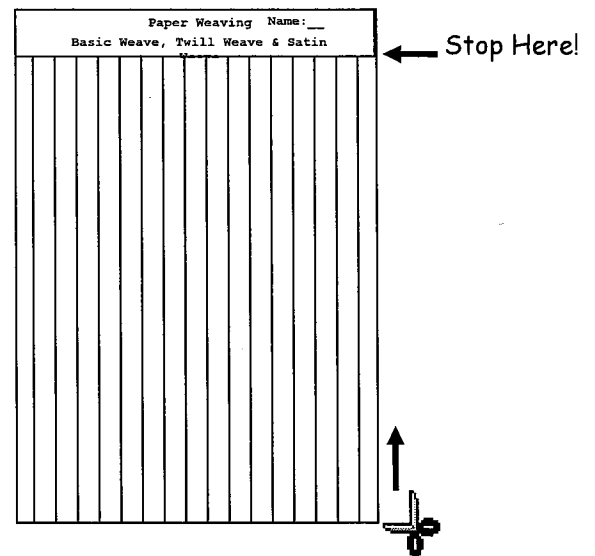
Row 1: (Over 2, Under 2)*

Row 2: Under 1, (Over 2, Under 2)*

Row 3: (Under 2, Over 2)*

Row 4: Over 1, (Under 2, Over 2)*

Row 5: (Over 2, Under 2)*



Turn



D. White Divider Strip:

* = Repeat what is in the parentheses

Row 1: (Over 1, Under 1)*

E. Satin Weave

* = Repeat what is in the parentheses

Row 1: (Under 1, Over 7)*

Row 2: Over 1, (Under 1, Over 7)*

Row 3: Over 2, (Under 1, Over 7)*

Row 4: Over 3, (Under 1, Over 7)*

Row 5: Over 4, (Under 1, Over 7)*

F. White Divider Strip:

* = Repeat what is in the parentheses

Row 1: (Over 1, Under 1)*

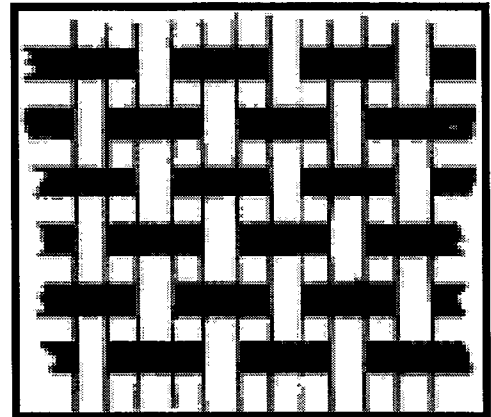
G. White Divider Strip:

* = Repeat what is in the parentheses

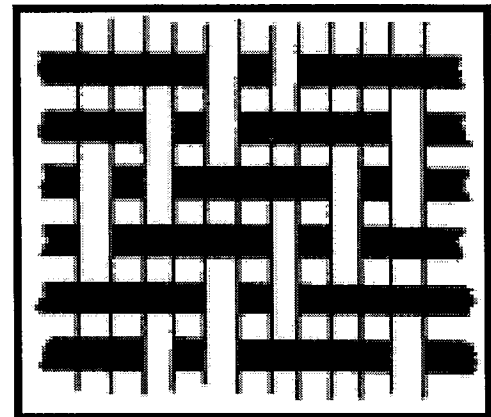
Row 1: (Under 1, Over 1)*

4. To finish your paper weaving project, make sure that all strips are firmly, and straightly, in place. Also, make sure that everything is flat and none of the strips "bubble" up.

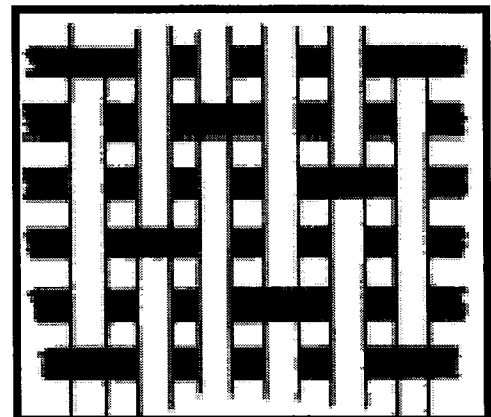
- a. Very carefully cut off the extra part of the strips that hang over the edges of the paper weaving template.
- b. Using clear tape, tape down all the edges so that there are no loose strips. Do this for the front and the back. Trim again if necessary.
- c. Using a marker, or pen, label each of the basic weaves on the white dividing strips.



**Plain
Weave**



Twill

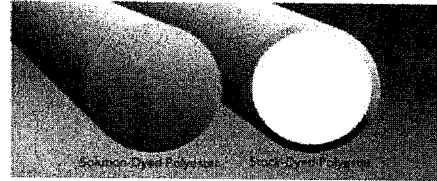


Satin

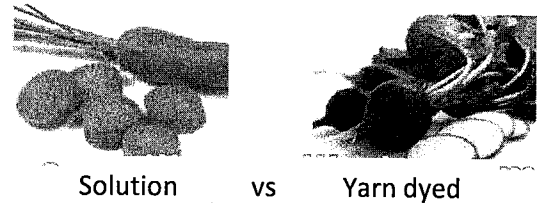
Fabric Finishes

Solution Dyed – adding color to a fiber solution before it is extruded

Compare to _____



Yarn – dyeing the yarns before they are woven or knitted into fabric



Compare to _____

Piece dyeing – dyeing of yard goods in fabric form after weaving or knitting.

_____ - _____ is an example



Printing – Process for adding color, pattern or design to the surface of fabrics. T-shirts with



Hang Tag vs Clothing Labels

Hang Tag is a removable optional item that is attached to a garment it can have the following on it: brand name, advertising & logo.



Labels- required by law:

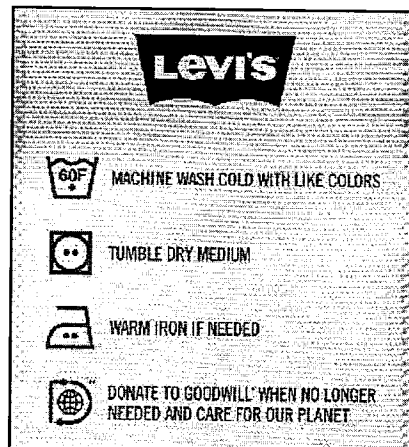
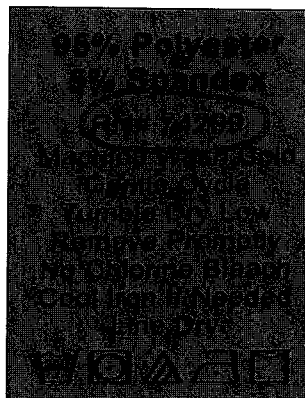
fiber _____,

garment _____,

international _____ symbols,

_____ number,

_____ of origin



M
A
N
U
F
A
C
T
U
R
E

=

S
Y
N
T
H
E
T
I
C

NYLON

POLYESTER

ACRYLIC

RAYON

SPANDEX

ACETATE

Nylon is the _____ fiber.

Nylon is lightweight and _____ sensitive.

_____ most widely used manufactured fiber.

Polyester is _____ & resilient.

Polyester retains _____

Polyester is _____ (repels h₂o)

Acrylic - is the _____ substitute.

Acrylic _____ wrinkling.

Acrylic _____ .

Rayon - _____ manufactured fiber, made from wood pulp,

Rayon is _____, _____, & wrinkles easily.

Spandex - _____, stretch,

Spandex _____ to sun, _____ and abrasion. Spandex is _____ sensitive

Acetate - _____ &

dries quickly.

Acetate has a _____ appearance and _____.