

## Fibers

| 1. |  | Fiber that comes from natural sources, such as plants and animals. They are absorbent and more expensive to produce. (Cotton, Flax/Linen, Silk and Wool.) |
| :---: | :---: | :---: |
| 2. |  | - Comfortable <br> - Absorbent (Hydrophilic) <br> - Wrinkles Easily <br> - Inexpensive |
| 3. |  | - Linen is Made From the Flax Plant <br> - Strong <br> - Lint-Free <br> - Wrinkles Excessivley |
| 4. |  | - Made from the Cocoon of the Silkworm <br> - Soft and Smooth <br> - Lustrous |
| 5. |  | - From the Fleece of Sheep <br> - Durable <br> - Warm <br> - Fire Resistant |
| 6. |  | Fibers that come from chemical compounds. They are heat sensitive, less absorbent and less expensive to produce. (Nylon, Polyester, Acrylic, Rayon, Spandex, Acetate.) |
| 7. |  | - Strongest Fiber <br> - Lightweight <br> - Heat Sensitve |
| 8. |  | - Most Widely Used Synthetic Fiber <br> - Strong <br> - Resilient <br> - Retains Oily Stains <br> - Repels Moisture (Hydrophobic) |
| 9. |  | - Wool Substitute <br> - Resists Wrinkling <br> - Tends to Pill |


| 10. | - First Manufactured Fiber <br> - Made from Wood Pulp <br> - Soft <br> - Absorbent <br> - Wrinkles |
| :---: | :---: |
| 11. | - Elasticity <br> - Stretch <br> - Resistant to: Sun Perspiration, Abrasion <br> - Heat Sensitive |
| 12. | - Absorbent <br> - Dries Quickly <br> - Silky Appearance and Feel |
| 13. | - Fibers are often blended together to increase strength, durablity, absorption and other characteristics. <br> - Common Fiber Blends: <br> - Cotton \& Polyester <br> - Wool \& Nylon <br> - Spandex \& Cotton |

## Fabric Construction

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\begin{array}{|l|l|l|}\hline \text { 1. } & & \begin{array}{l}\text { All fabric is made from fiber, either natural or synthetic. The } \\
\text { fiber is processed and twisted into yarn. The yarn is then } \\
\text { woven or knit into fabric. }\end{array} \\
\hline 2 . & \begin{array}{l}\text { Woven fabrics are created by the interlocking of two } \\
\text { separate yarns, the warp and the weft. }\end{array}
$$ <br>
\hline Warp: Top to Bottom <br>

Weft: Left to Right\end{array}\right]\)| - The simplest weave. |
| :--- |
| - The filling yarn (weft) passes over |
| and under each warp yarn and then |
| alterntes on the next row. |



## Fabric Finishes

| 1. |  | Adding color to a synthetic fiber solution before it is <br> extruded. |
| :--- | :--- | :--- |
| 2. |  | Dyeing the yarns before they are woven or knitted into <br> fabric. |
| 3. | Dyeing of fabric after weaving or knitting. |  |
| 4. |  | Fabric is cut and sewn into the finished product and then <br> dyed. |
| 5. | Process of adding color, pattern or design to the surface of <br> fabrics. |  |

## Fabric Texture Activity

Look at the $\mathbf{8}$ different fabrics and describe the way they look, feel, hang, and move. Then consider a few things that could appropriately be made out of each fabric.

| Fabric | Description/Characteristics | What could be made <br> with this fabric? | Fabric Name |
| :---: | :---: | :---: | :---: |
| 1. |  |  |  |
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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/Pen/Pencil


## Instructions:

1. Obtain all supplies listed above. Write your name and class period 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:


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.
d) Be sure your name and class period are written at the top of your paper and turn it in
