

To be used with Textile Handbook handout.

This lesson is meant to take place over 3 or 4 class periods. Each lesson should take approx. 20 min or less. Students will be given a handout booklet to take notes in. Textiles PPT, Fashion! Textbook and a couple of hands on activities.

Day 1, Introduce the fibers. Day 2, Review Fibers and discuss application/use, Stain Removal notes and discussion. Day 3, Notes and Discussion on Woven and Knit Fabrics, Stretch activity. Day 4, Notes and Discussion on Nonwoven, wool beads felting activity, Fabric sorting activity.

See Notes in PPT slides for additional details. My students are also working on their final project during this time. They get 20 min of instruction and 60 to sew on their projects.

See Notes in PPT slides for additional details.

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A type of Cloth or woven fabric

Natural vs Manufactured



Have students list the following fibers in their notes as you list them. Natural: Wool Cotton Linen Silk Manufactured:

Nylon Polyester Rayon Acetate Acrylic Spandex



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Natural vs Manufactured

ester

Have students list the following fibers in their notes as you list them.

Natural:

Wool

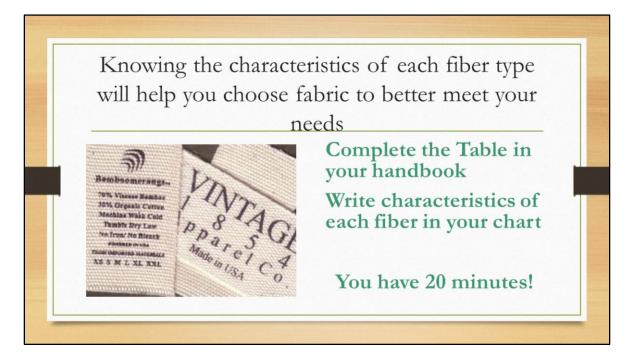
Cotton

Linen

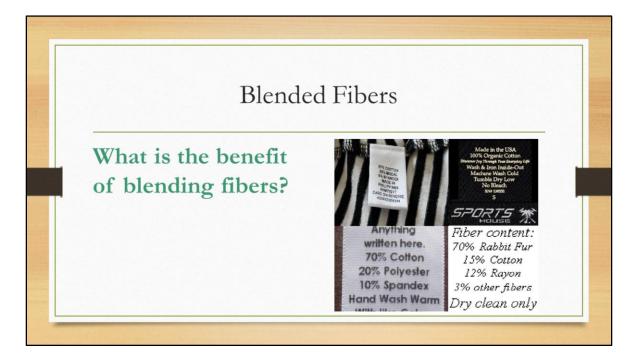
Silk

Pass around the fiber cards for each fiber type (card has a fiber sample, and fabric sample attached to it)*

Manufactured: Nylon Polyester Rayon Acetate Acrylic Spandex



Have students use the FASHION! text book to complete the chart in their notes.



Blending fibers creates the best of both worlds.

It can decrease cost, but will give the qualities of the fibers.

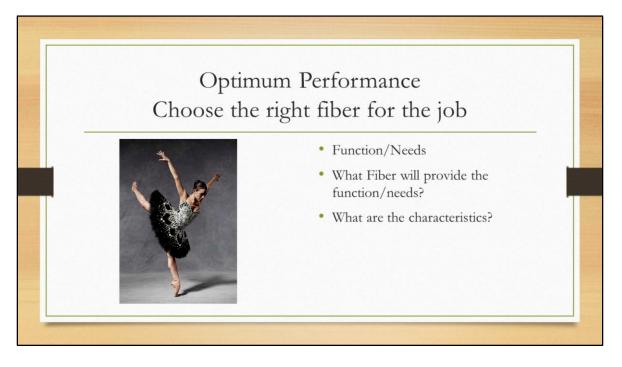
Eg. Spandex and cotton blended changed how most people felt about wearing jeans.



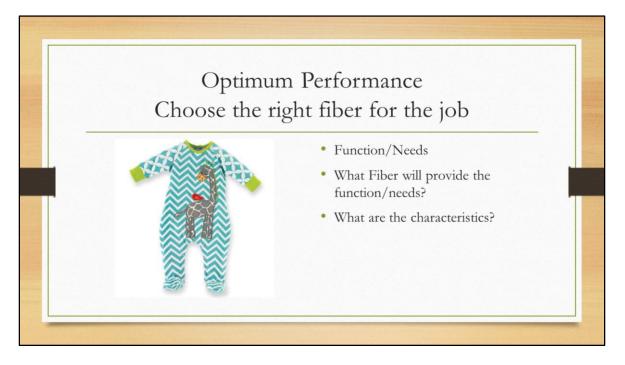
Students needs to tell what the fiber characteristics that make their choose the best selection.



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Heat and Time set a stain



Have students refer to the guide in their handout, discuss how to launder an item that is affected by the following item:

Gum Grass stains



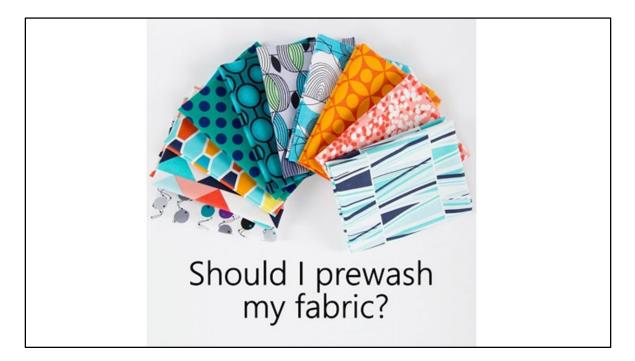
Have students refer to the guide in their handout, discuss how to launder an item that is affected by the following item:

Makeup/lipstick Ball point pen



Have students refer to the guide in their handout, discuss how to launder an item that is affected by the following item:

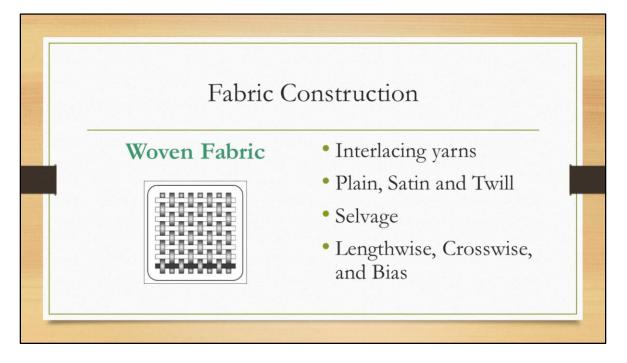
Blood/Protein Chocolate



Preshrink your fabric by washing, drying and ironing (if needed) exactly how you would care for the finished item before you begin. Knits are notorious for shrinking!



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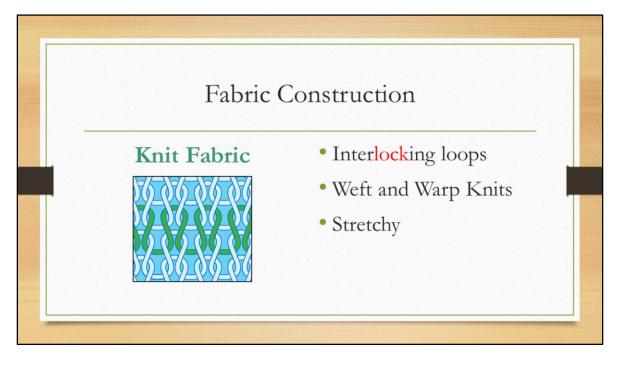


Give students a piece of cloth and have them label the parts of the fabric (selvage, lengthwise, crosswise, bias)

Discuss how the type of weave affects the fabric types (broadcloth, denim, crepe de chine)

There are different types of weaves, Plain, satin, and twill. We go into more detail on the types of weaves in fashion strategies and clothing 2

Resource: Fabric Guide: The Ultimate Fiber Resource, by Simplicity



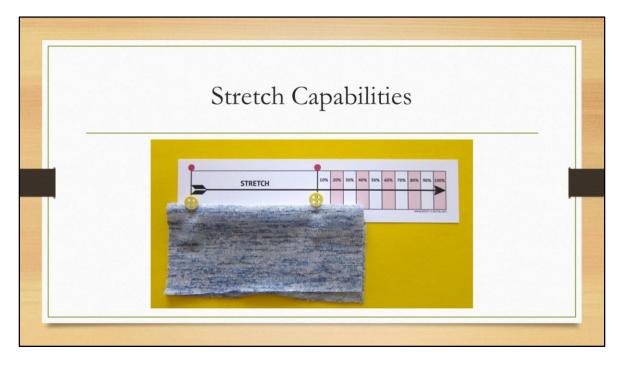
Knits have much more give and flexibility that its more rigid woven counsin There are two types of machine knittibng construction: weft and warp.

Weft knits: Jersey or plain knits, Double Knits, Rib Knits (developed to copy the look of hand knitting)

Warp knits: Tricot, Raschel knits (more durable than a weft knit, and less susceptible to running)

If a knit has spandex added to it, it has even more stretch! Show students how to check stretch capability for knit.

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Why should one be concerned with how much a knit can or can not stretch?

Not all knit fabrics stretch the same amount, use the following ruler to determine the stretch of your fabric. We recommend fabrics that have a 2-way stretch and moderate (35% -- jersey knit and interlock) to super (75% -- rib knit and fabric with spandex/lycra) stretchability. Fold the knit perpendicular the grainline (along the direction of stretch). Place pins 4" apart. Hold knit firmly at edge of gauge and stretch without distorting the fabric. If distortion (parallel folds) appears, relax tension. Note the distance the knit stretched beyond its original length. Release the pulled end; if it returns to its original location, it has excellent recovery.

Measure on the crossgrain

http://www.jocole.net/pdf/KnitTips&Tricks.pdf http://stitch-n-smile.com/how-to-thursday-measuring-your-fabric-stretch/

Give students a knit sample and have them measure their fabric stretch (pinsm



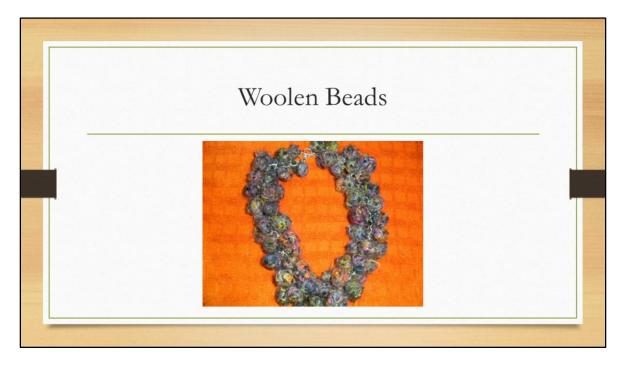
Netting: is an ancient construction that's been adapted to generate many types of fabrics. Lace and Tuelle are examples

Bonding: joins two separate layers of cloth, plastic or vinly together with a chemical agent. Faux leather is an example

Fusing: creates a matted web by joining fibers together with an adhesive or bonding agent. Interfacings are a good example

Felting: uses a combination of moisture, heat, and friction to produce a thick, warm fabric from wool fibers. The wool fibers are immersed in water, causing the scales on the fiber to swell; agitation or friction is then applied to entangle the scales together. Next, heat is applied to shrink the scales back down.

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Have students make a woolen bead to experience felting! Have students identify what they did to reflect the steps of the felting process:

Immerse in water---cut woolen string into small pieces and saturate in

water

Agitation---pull cut pieces apart Heat---roll pulled pieces between your palms

Tutorial link shows how to make a necklace with woolen beads. http://www.nowimaginethis.blogspot.com/2010/01/texture-woolen-beads.html



Have 10-12 Ziploc bags prepared with 6"x6" squares of woven, knit and nonwoven fabrics.

Give a group of 2-3 students a zip lock bag and have them sort the fabrics into the correct categories.

Have them check off their sorting when they are finished.

Questions:

Was is hard to sort the fabrics?

What were you looking for to classify woven/knit/nonwoven?

How will you use this knowledge to help you select fabrics in the future?