Unit 3: Fibers and fabrics

Content Area: Course(s): Time Period: Length: Status:	Family and Consumer Sciences Fashion Technology November 7 blocks Published
	Understandings has its own characteristics and properties which affects a fabrics' performance, appearance and
Knowledge	of fiber characteristics help you select the fiver most appropriate for its end use.
Fibers are p	ut together to make yarn; yarns are woven, knitted or bonded together to make fabric.
The two ma	in groups of fibers are natural and man made.
The most co	ommon methods of making fabric are weaving, knitting and bonding.
Finishes aff	ect a fabrics' appearance, feel and performance.
Essential	Questions
	orics classified?
How is fabr	ic construction related to clothing type?
How do fini	shes affect fabrics?
How does c	ombining fibers make for a better garment?

What is the correlation between the type of fiber and end fabric costs?				
How can fiber enhancements help designers create fashion styles?				
How has the evolution of man-made fabrics revolutionized the fashion industry?				
Content Vocabulary:				
Natural				
Man-made				
Yarn				
Fiber				
Spinneret				
Filament				
Pilling				
Dyeing				
Fabric Finish				
Plain weave				
Satin Weave				
Twill weave				
Knitting				
Weaving				
Bonding				
Quilting				
Nap				
Warp Weft				

Blend			
Pile			
Skills			
Identify fiber characteristics that affect the appearance and performance of fabrics			
Summarize the sources, production steps and characteristics of natural fabrics			
Outline the masses involved in the masshartion of meanifestand files.			
Outline the process involved in the production of manufactured fibers			
Summarize how fibers are combined to make various types of yarns			
Describe the three basic weaves and the most common variation of these weaves			
Describe the two methods of knitting and the most common variation of weft and warp knits			
Summarize the methods used to color or print designs on fabrics			
Resources			
Apparel			
Google search, docs & slides			
Standards			

	settings.
FCSE.9-12.16.2.1	Apply appropriate terminology for identifying, comparing, and analyzing the most common generic textile fibers and fabrics.
FCSE.9-12.16.2.2	Evaluate performance characteristics of textile fiber and fabrics.
FCSE.9-12.16.2.3	Analyze textile legislation, standards, and labeling in the global economy.
FCSE.9-12.16.2.4	Analyze characteristics of textile components in the design, construction, care, use, maintenance, and disposal or recycling of products.
FCSE.9-12.16.2.5	Demonstrate appropriate procedures for care and disposal or recycling of textile products, considering diverse needs locally and globally.
FCSE.9-12.16.4.2	Explain production processes for creating fibers, yarns, woven and knit fabrics, and non-woven textile products.