

Correlation of National Standards with *Apparel: Design, Textiles & Construction*

The National Standards for Family and Consumer Sciences include 16 areas of study. Each area has a comprehensive standard describing the overall content, which is further detailed in several content standards. Each of these standards lists several competency statements describing the knowledge, skills, and practices expected of learners.

By studying the *Apparel: Design, Textiles & Construction* text, students will explore the competencies included in the National Standards. To help you see how this can be accomplished, following is the correlation of the National Standards with *Apparel: Design, Textiles & Construction*. If you want to make sure you prepare students to meet these National Standards, these charts should be of interest to you.

Content Standard 16.1 Analyze career paths within textile apparel and design industries.	
Competencies	Text Concepts
<p>16.1.1 Explain the roles and functions of individuals engaged in textiles and apparel careers.</p>	<p>4: Textile production segment; The structure of the textile industry; Textile designing; Textile converters; Manufacturing; Research and development; Marketing; Apparel production segment; The structure of apparel companies; Research and merchandising; Design and product development; Production; Sales and marketing; Custom work in apparel production; The retail segment; Merchandise managers; Buyers; Sales associates; Stock clerk; Market researchers; Fashion coordinators; Display directors; Fashion illustrators; Fashion writers; Fashion models; Alterations; Vertical integration of the textile and apparel industries</p> <p>6: Where do fashion designers work? The fashion design process; What inspires designers? Creating the design ideas; Making the samples; Today's fashion designers</p> <p>30: Exploring the career clusters</p> <p>31: Types of small businesses; Entrepreneurial opportunities; Creating products for sale; Selling products; Providing a service</p>

<p>16.1.2 Analyze opportunities for employment and entrepreneurial endeavors.</p>	<p>5: U.S. apparel industries and world economies; Trade laws and agreements; Free trade agreements; Global sourcing; Technological advances in the apparel industry; Computer use in design and manufacturing; E-commerce and social networking</p> <p>6: Ready-to-wear versus couture; Licensing; Where do fashion designers work? Fashion capitals; The fashion design process; Creating the design ideas; Today's fashion designers</p> <p>30: Exploring the career clusters; Job shadowing; Making career-related decisions; A job for you; Finding job openings</p> <p>31: The pros and cons of entrepreneurship; Characteristics of successful entrepreneurs; Types of small businesses; Entrepreneurial opportunities; Preparing for entrepreneurship; Profiting from your skills</p>
<p>16.1.3 Summarize education and training requirements and opportunities for career paths in textile and apparel services.</p>	<p>4: The retail segment; Merchandise managers; Buyers; Sales associates; Stock clerk; Fashion coordinators; Display directors; Alterations</p> <p>5: Technological advances in the apparel industry; E-commerce and social networking</p> <p>29: Leadership; Effective team membership; Student organizations; Conducting meetings</p> <p>30: Exploring the career clusters; Job shadowing; Making career-related decisions; A job for you</p> <p>31: Preparing for entrepreneurship</p>
<p>16.1.4 Analyze the effects of textiles and apparel occupations on local, state, national, and global economies.</p>	<p>2: The importance of fashion</p> <p>3: Influences on fashion; Economic influences; Market economy; Command economy; The history of textiles and apparel; The Middle Ages; The 1600s; The 1700s; The Industrial Revolution; The 1800s; Textiles and apparel today</p> <p>4: Textile production segment; The structure of the textile industry; Apparel production segment; The retail segment; Vertical integration of the textile and apparel industries</p> <p>5: U.S. apparel industries and world economies; Balance of trade; Trade laws and agreements; World Trade Organization; Free trade agreements; Global sourcing; Creating safe work environments; Labor laws to protect apparel workers; Sweatshops</p> <p>31: The pros and cons of entrepreneurship</p>
<p>16.1.5 Create an employment portfolio for use when applying for internships, work-based learning opportunities and employment in textiles, fashion, and apparel.</p>	<p>30: A job for you; Developing a portfolio</p>

<p>16.1.6 Analyze the role of professional organizations in textiles, fashion, and apparel industries.</p>	<p>6: Ready-to-wear versus couture; Fashion publications and associations; Trade associations</p> <p>30: A job for you; Preparing a résumé; Memberships and professional associations</p>
<p>Content Standard 16.2 Evaluate fiber and textile products and materials.</p>	
<p>Competencies</p>	<p>Text Concepts</p>
<p>16.2.1 Apply appropriate terminology for identifying, comparing, and analyzing the most common generic textile fibers.</p>	<p>9: Federal legislation to help consumers; Textile Fiber Products Identification Act</p> <p>19: Manufacturing fibers; Fiber modifications; Characteristics of manufactured fibers; Rayon; Lyocell; Acetate; Triacetate; Nylon; Polyester; Olefin; Acrylic; Modacrylic; Spandex; Elastoester</p>
<p>16.2.2 Evaluate performance characteristics of textile fiber and fabrics.</p>	<p>1: Influences on clothing choices; Activities; Climate</p> <p>9: Labels and hangtags; Using labels and hangtags</p> <p>11: Judging garment quality; Levels of quality; General standards of quality; Making the buying decision</p> <p>14: Understanding care labels; Sorting clothes; Washing clothes; Drying clothes; Pressing and ironing; Dry cleaning</p> <p>18: Fiber characteristics; Natural fibers</p> <p>19: Fiber modifications; Characteristics of manufactured fibers</p> <p>20: Yarns; Types of yarns; Twist in yarns; Textured yarns; Single, ply, and cord yarns; Blends and combinations; Woven fabrics; Weaving; Basic weaves; Plain weave; Twill weave; Satin weave; Weave variations; Knitted fabrics; Weft knitting; Warp knitting; Seamless knit garments; Other fabric constructions</p> <p>21: Adding color; Colorfastness; Printing; Finishes; Finishes that affect performance; Finishes that affect appearance and texture</p>

<p>16.2.3 Summarize textile legislation, standards, and labeling in the global economy.</p>	<p>5: U.S. apparel industries and world economies; Trade laws and agreements; Free trade agreements; Labor laws to protect apparel workers; Environmental efforts of textile producers; Organically grown fibers; Ethical and unethical practices within the industry; Technological advances in the apparel industry; Computer use in design and manufacturing; Quick Response</p> <p>9: Labels and hangtags; Federal legislation to help consumers; Wool Products Labeling Act; Consumer Products Safety Act and Consumer Products Improvement Act; Consumer protection agencies and organizations</p> <p>11: Getting the right fit; Find the right size</p> <p>12: Selecting clothes for children</p> <p>14: Understanding care labels; Dry cleaning</p>
<p>16.2.4 Analyze effects of textile characteristics on design, construction, care, use, and maintenance of products.</p>	<p>13: Daily clothing care; Clothing care products; Prewash soil and stain removers; Bleach</p> <p>14: Understanding care labels; Preparing clothes for washing; Sorting clothes; Washing clothes; Hand washing; Drying clothes; Machine drying; Line drying; Flat drying; Drip-drying; Pressing and ironing; Dry cleaning</p> <p>18: Fiber characteristics; Natural fibers</p> <p>19: Fiber modifications; Characteristics of manufactured fibers</p> <p>20: Yarns; Types of yarns; Twist in yarns; Textured yarns; Single, ply, and cord yarns; Blends and combinations; Woven fabrics; Weaving; Basic weaves; Weave variations; Knitted fabrics; Weft knitting; Warp knitting; Seamless knit garments; Other fabric constructions</p> <p>21: Adding color; Dyeing; Colorfastness; Printing; Finishes; Finishes that affect performance; Finishes that affect appearance and texture</p> <p>23: Choosing a fabric</p> <p>25: Preparing the fabric; Preshrinking the fabric; Understanding fabric grain; Checking the grain; The pattern layout; Napped and patterned fabrics; Pinning the pattern pieces; Transferring pattern markings</p> <p>26: Machine stitching techniques; Seams and seam finishes; Interfacing; Hems; Fasteners; Pressing techniques</p> <p>27: Collars; Casings; Sewing with knits; Sewing with pile fabrics</p> <p>28: Basic serger stitches; Selecting thread and accessories; Adjusting thread tension; Adjusting stitch length and width; Using a serger in clothing construction; Serging seams</p>

<p>16.2.5 Apply appropriate procedures for care of textile products.</p>	<p>9: Labels and hangtags; Federal legislation to help consumers; Textile Fiber Products Identification Act; Care Labeling Rule; Flammable Fabrics Act</p> <p>13: Daily clothing care; Remove stains; Clothing storage; Clothing care products; Laundry detergent; Water softeners; Prewash soil and stain removers; Enzyme presoaks; Bleach; Fabric softeners; Starch and sizings; Solvents or cleaning fluids; Clothing care equipment; Washers and dryers; Irons and ironing boards</p> <p>14: Understanding care labels; Preparing clothes for washing; Pretreatment and stain removal; Sorting clothes; Washing clothes; Machine washing; Hand washing; Drying clothes; Machine drying; Line drying; Flat drying; Drip-drying; Pressing and ironing; Dry cleaning</p>
<p>Content Standard 16.3 Demonstrate fashion, apparel, and textile design skills.</p>	
<p>Competencies</p>	<p>Text Concepts</p>
<p>16.3.1 Explain the ways in which fiber, fabric, texture, pattern, and finish can affect visual appearance.</p>	<p>17: Elements of design; Line; Form and shape; Texture; Principles of design; Balance; Proportion; Rhythm; Emphasis; Achieving harmony</p> <p>18: Fiber characteristics; Natural fibers</p> <p>19: Fiber modifications; Characteristics of manufactured fibers</p> <p>20: Yarns; Types of yarns; Twist in yarns; Textured yarns; Single, ply, and cord yarns; Blends and combinations; Woven fabrics; Weaving; Basic weaves; Weave variations; Knitted fabrics; Weft knitting; Warp knitting; Seamless knit garments; Other fabric constructions</p> <p>21: Adding color; Dyeing; Colorfastness; Printing; Finishes; Finishes that affect performance; Finishes that affect appearance and texture</p> <p>23: Choosing a fabric; Other items to sew</p>
<p>16.3.2 Apply basic and complex color schemes and color theory to develop and enhance visual effects.</p>	<p>16: Color and its meanings; Understanding color terms; The color wheel; Warm and cool colors; Color schemes; Choosing your best colors; Colors for your skin tone; Colors for your hair and eyes; Your seasonal coloring; Colors for your body type</p> <p>17: Principles of design; Balance; Rhythm; Emphasis; Achieving harmony</p>
<p>16.3.3 Utilize elements and principles of design in designing, constructing, and/or altering textile, apparel, and fashion products.</p>	<p>16: Choosing your best colors; Colors for your body type</p> <p>17: Figure types; Elements of design; Line; Form and shape; Texture; Principles of design; Balance; Proportion; Rhythm; Emphasis; Achieving harmony</p> <p>23: Choosing a pattern; Flatter your body shape</p>

<p>16.3.4 Demonstrate design concepts with fabric or technology/computer, using draping and/or flat pattern making technique.</p>	<p>6: Creating the design ideas 28: Construction order</p>
<p>16.3.5 Generate design that takes into consideration ecological, environmental, sociological, psychological, technical, and economic trends and issues.</p>	<p>3: Influences on fashion; Cultural influences; Social influences; Religious influences; Political influences; Economic influences; Technological influences; The history of textiles and apparel 4: Textile production segment; Textile designing; Apparel production segment; Design and product development 5: Environmentally friendly fibers; Organically grown fibers 6: Fashion categories and price points; The fashion design process; What inspires designers? Creating the design ideas</p>
<p>16.3.6 Apply elements and principles of design to assist consumers and businesses in making decisions.</p>	<p>16: Choosing your best colors 17: Elements of design; Principles of design</p>
<p>16.3.7 Demonstrate ability to use technology for fashion, apparel, and textile design.</p>	<p>3: Influences on fashion; Technological influences 4: Textile production segment; Textile designing; Apparel production segment; Design and product development 5: Technological advances in the apparel industry; Computer use in design and manufacturing; Quick Response; E-commerce and social networking 6: The fashion design process; Creating the design ideas; Making the samples</p>
<p>Content Standard 16.4 Demonstrate skills needed to produce, alter, or repair fashion, apparel, and textile products.</p>	
<p>Competencies</p>	<p>Text Concepts</p>
<p>16.4.1 Demonstrate professional skills in using a variety of equipment, tools, and supplies for fashion, apparel, and textile construction, alteration, and repair.</p>	<p>15: Repairing clothes; Altering clothes; Redesigning clothes; Recycling clothes 22: Taking body measurements; Measurements to determine alterations 24: The sewing machine</p>

<p>16.4.2 Explain production processes for creating fibers, yarn, woven, and knit fabrics, and nonwoven textile products.</p>	<p>4: Apparel production segment; The structure of apparel companies; Research and merchandising; Design and product development; Production; Engineering and management; Sales and marketing; Custom work in apparel production</p> <p>18: Fiber characteristics; Natural fibers; Cotton; Flax (linen); Other plant fibers; Wool; Silk</p> <p>19: Manufacturing fibers; Fiber modifications; Characteristics of manufactured fibers</p> <p>20: Yarns; Types of yarns; Twist in yarns; Textured yarns; Single, ply, and cord yarns; Blends and combinations; Woven fabrics; Weaving; Basic weaves; Weave variations; Knitted fabrics; Weft knitting; Warp knitting; Other fabric constructions; Felt; Nonwoven fabrics; Films; Bonded fabrics; Quilted fabrics</p> <p>21: Adding color; Finishes</p>
<p>16.4.3 Use appropriate industry products and materials for cleaning, pressing, and finishing textile, apparel, and fashion products.</p>	<p>13: Daily clothing care; Clothing storage; Clothing care products; Clothing care equipment</p> <p>14: Understanding care labels; Preparing clothes for washing; Washing clothes; Drying clothes; Pressing and ironing; Dry cleaning</p> <p>21: Adding color; Finishes</p> <p>24: Cutting tools; Measuring tools; Marking tools; Needles; Pins; Pincushions; Thimbles; Notions; Pressing equipment; The sewing machine</p> <p>26: Machine stitching techniques; Darts; Seams and seam finishes; Facings; Interfacing; Zippers; Hems; Fasteners; Pressing techniques</p> <p>28: How the serger functions; Serger machine parts; Basic serger stitches; Selecting thread and accessories; Threading the serger; Operating the serger; Adjusting thread tension; Adjusting stitch length and width; Using a serger in clothing construction; Serging seams; Serger care</p>

16.4.4 Analyze current technology and trends that facilitate design and production of textile, apparel, and fashion products.

- 3:** Influences on fashion; The history of textiles and apparel; Textiles and apparel today
- 4:** Textile production segment; Apparel production segment; The retail segment; Vertical integration of the textile and apparel industries
- 5:** U.S. apparel industries and world economies; Balance of trade; Trade laws and agreements; World Trade Organization; Free trade agreements; Global sourcing; Technological advances in the apparel industry; Computer use in design and manufacturing; Quick Response; E-commerce and social networking
- 6:** The fashion design process; What inspires designers? Creating the design ideas; Making the samples; Today's fashion designers; Fashion publications and associations; Fashion news via technology
- 19:** Manufacturing fibers; Fiber modifications; Characteristics of manufactured fibers
- 20:** Seamless knit garments; Other fabric constructions; Nonwoven fabrics
- 21:** Adding color; Printing; Digital printing; Finishes; Finishes that affect performance; Finishes that affect appearance and texture

<p>16.4.5 Demonstrate basic skills for producing and altering textile products and apparel.</p>	<p>15: Altering clothes; Altering length; Altering width; Redesigning clothes; Restyling; Embroidery, trims, and appliqués; Dyeing; Tie-dyeing; Fabric painting</p> <p>22: Determining figure type; Determining size; Taking body measurements; Measuring females; Measurements to determine alterations; Measuring males; Selecting a pattern that fits; Garment type determines size; Pattern ease</p> <p>23: Pattern catalogs; Understanding the pattern; Pattern envelope; Cutting and sewing guide sheet; Pattern pieces; Choosing a pattern; Match your skill level; Fill a need; Flatter your body shape; Choosing a fabric; Other items to sew; Bags; Sports equipment; Stuffed toys; Home décor items</p> <p>25: Preparing the fabric; Understanding fabric grain; Preparing the pattern; Altering the pattern; The pattern layout; Pinning the pattern pieces; Cutting; Transferring pattern markings</p> <p>26: Machine stitching techniques; Darts; Seams and seam finishes; Facings; Interfacing; Zippers; Hems; Fasteners; Pressing techniques</p> <p>27: Collars; Sleeves; Pockets; Waistline treatments; Casings; Sewing with knits; Sewing with pile fabrics</p> <p>28: Threading the serger; Operating the serger; Adjusting thread tension; Adjusting stitch length and width; Using a serger in clothing construction; Serging seams</p>
<p>Content Standard 16.5 Evaluate elements of textile, apparel, and fashion merchandising.</p>	
<p>Competencies</p>	<p>Text Concepts</p>
<p>16.5.1 Apply marketing strategies for textile, apparel, and fashion products.</p>	<p>4: Textile production segment; Marketing; Apparel production segment; Research and merchandising; Sales and marketing; The retail segment</p> <p>5: Technological advances in the apparel industry; E-commerce and social networking</p> <p>6: Licensing; Fashion categories and price points</p> <p>9: Labels and hangtags</p> <p>10: Shopping strategies; Use advertisements wisely; Know your sales</p> <p>11: Getting the right fit; Target market</p> <p>31: Preparing for entrepreneurship; Profiting from your skills; What to sell; Pricing your product; Market your product</p>

<p>16.5.2 Analyze the cost of constructing, manufacturing, altering, or repairing textile, apparel, and fashion products.</p>	<p>4: Textile production segment; Textile converters; Textile engineers; Marketing; Apparel production segment; Design and product development; Production; Engineering and management; Sales and marketing; Custom work in apparel production; Merchandise managers</p> <p>6: Ready-to-wear versus couture; Fashion categories and price points; Price points; The fashion design process; Creating the design ideas</p> <p>11: Judging garment quality; Levels of quality; Consider alterations</p> <p>31: Profiting from your skills; What to sell; Pricing your product; Market your product</p>
<p>16.5.3 Analyze ethical considerations for merchandising apparel and textile products.</p>	<p>1: Influences on clothing choices; Media</p> <p>5: Ethical and unethical practices within the industry</p> <p>6: Knockoffs</p> <p>9: Federal legislation to help consumers; Consumer protection agencies and organizations; Your rights as a consumer</p> <p>10: Nonstore shopping; Pros and cons of catalog and online shopping; Shopping strategies; Advertising appeals used; Infomercials and advertorials</p> <p>30: Succeeding on the job; Ethical workplace behavior</p>
<p>16.5.4 Apply external factors that influence merchandising.</p>	<p>See G-W title <i>Fashion Marketing & Merchandising</i></p>
<p>16.5.5 Critique varied methods for promoting apparel and textile products.</p>	<p>1: Influences on clothing choices; Media</p> <p>4: Textile production segment; Marketing; Apparel production segment; Research and merchandising; Sales and marketing; The retail segment</p> <p>5: Technological advances in the apparel industry; E-commerce and social networking</p> <p>6: Licensing; Fashion categories and price points</p> <p>9: Labels and hangtags</p> <p>10: Shopping strategies; Advertising appeals used; Infomercials and advertorials; Know your sales</p> <p>11: Getting the right fit; Target market</p> <p>31: Preparing for entrepreneurship; Profiting from your skills; What to sell; Pricing your product; Market your product</p>
<p>16.5.6 Apply research methods, including forecasting techniques, for marketing apparel and textile products.</p>	<p>See G-W title <i>Fashion Marketing & Merchandising</i></p>

Content Standard 16.6 Evaluate the components of customer service.	
Competencies	Text Concepts
16.6.1 Analyze factors that contribute to quality customer relations.	9: Consumer protection agencies and organizations; Your rights as a consumer; Your responsibilities as a consumer; Handling a complaint 10: Types of stores; Department stores; Nonstore shopping; Catalog and online shopping; Paying for what you buy; Using credit; Layaway buying 29: Leadership; Effective team membership 30: Succeeding on the job
16.6.2 Analyze the influences of cultural diversity as a factor in customer relations.	See G-W title <i>Fashion Marketing & Merchandising</i>
16.6.3 Demonstrate the skills necessary for quality customer service.	4: Sales associates 9: Handling a complaint 30: Use technology effectively
16.6.4 Create solutions to address customer concerns.	9: Consumer protection agencies and organizations; Your rights as a consumer; Your responsibilities as a consumer; Handling a complaint
Content Standard 16.7 Demonstrate general operational procedures required for business profitability and career success.	
Competencies	Text Concepts
16.7.1 Analyze legislation, regulations, and public policy affecting the textiles, apparel, and fashion industries.	1: Clothing meets human needs; Influences on clothing choices 3: Influences on fashion; Social influences; Religious influences; Political influences; Economic influences; The history of textiles and apparel 5: U.S. apparel industries and world economies; Ethical and unethical practices within the industry; U.S. apparel industries and world economies; Balance of trade; Trade laws and agreements; World Trade Organization; Free trade agreements; Global sourcing; Creating safe work environments; Labor laws to protect apparel workers; Sweatshops; Environmental efforts of textile producers; Ethical and unethical practices within the industry 9: Labels and hangtags; Federal legislation to help consumers; Textile Fiber Products Identification Act; Wool Products Labeling Act; Fur Products Labeling Act; Care Labeling Rule; National Organic Program Regulations; Consumer Products Safety Act and Consumer Products Improvement Act; Flammable Fabrics Act; Federal Hazardous Substances Act; Consumer protection agencies and organizations; Your rights as a consumer 14: Understanding care labels

<p>16.7.2 Analyze personal and employer responsibilities and liabilities regarding industry-related safety, security, and environmental factors.</p>	<p>1: Clothing meets human needs; Safety and security needs; Influences on clothing choices</p> <p>5: U.S. apparel industries and world economies; Creating safe work environments; Labor laws to protect apparel workers; Sweatshops; Environmental efforts of textile producers; Environmentally friendly fibers; Fibers from renewable sources; Fibers from recycled materials; Organically grown fibers; Ethical and unethical practices within the industry</p> <p>9: Consumer Product Safety Act and Consumer Product Safety Improvement Act; Flammable Fabrics Act; Federal Hazardous Substances Act; Consumer protection agencies and organizations; Your rights as a consumer; Your responsibilities as a consumer</p> <p>12: Clothes for adults; Occupations influence clothing needs</p> <p>30: Succeeding on the job; Ethical workplace behavior; Safety on the job</p>
<p>16.7.3 Analyze the effects of security and inventory control strategies, cash and credit transaction methods, laws, and worksite policies, on loss prevention and store profit.</p>	<p>5: Ethical and unethical practices within the industry; Technological advances in the apparel industry</p> <p>10: Paying for what you buy</p>
<p>16.7.4 Demonstrate procedures for reporting and handling accidents, safety, and security incidents.</p>	<p>30: Succeeding on the job; Safety on the job; Develop safety habits; Handling emergencies; Follow emergency evacuation procedures</p>
<p>16.7.5 Analyze operational costs such as mark ups, mark downs, cash flow, and other factors affecting profit.</p>	<p>31: Preparing for entrepreneurship; Profiting from your skills; What to sell; Pricing your product; Market your product</p>
<p>16.7.6 Demonstrate knowledge of the arts, of various resources, and cultural impact upon the textile, apparel, and fashion industries.</p>	<p>1: Clothing meets human needs; Clothing communicates; Influences on clothing choices</p> <p>2: The importance of fashion; Fashion cycles; Garment features and styles</p> <p>3: Influences on fashion; Cultural influences; Social influences; Religious influences; Political influences; Economic influences; The history of textiles and apparel; The Middle Ages; The 1600s; The 1700s; The Industrial Revolution; The 1800s; Textiles and apparel today</p>