

Skill Mastery - Apparel Design & Construction (ADC)



Parents, Volunteers and County Educators:

There are many reasons 4-H youth participate in and continue their project work. Everything done in the “name of project work” will not be done for a competitive grade. While working with members consider using the following to encourage project work.

- ☼ **Fun** – Done just for the fun of learning and trying something new. Enjoyment received from using knowledge and skill. Sense of creativity being expressed. The member is enjoying the process of learning; the focus is not on perfecting technique, skill or knowledge.
- ☼ **Personal Use** – Practical application of project work for day to day living or the act of doing for others. Members have practiced their skills and knowledge producing quality items that will withstand daily use, improve life or bring enjoyment.
- ☼ **Competition** – The member has practiced “like an athlete” and has produced a thoughtful product/project that is of quality and demonstrates their knowledge, skills and abilities, as compared to a quick, simple project. The member fully understands both they and the project are being evaluated and provided constructive comments for continued project growth.

Exhibits – items for competitive use

- ADC exhibits should be unique to *Apparel Design & Construction* and should not be included in any project/product from the Interior Design and Construction (IDC) or Hobby & Textile Design and Construction (HTDC) categories.
- The finished project/product should illustrate the mastery of skills and knowledge unique to ADC.

Design and Construction Skill Mastery

Through this project 4-H members will demonstrate the mastery of the design and construction process by selecting and using materials which produce an end product. The 4-H word for end product is “project.” There are three primary areas a member is encouraged to learn and grow:

- 1) **Mastery of Subject Matter and Skill** – The act of “*learning to learn*” and applying the information and skill(s) to make something the member can enjoy and be proud of.
- 2) **An understanding and application of the Elements and Principles of Design**

Elements of Design

The elements of design should be included in the finished product/project

- Line
- Shape and Form(s)
- Texture
- Color
- Space

Principles of Design

The principles of design should be included in the finished product/project

- Harmony
- Proportion/Scale
- Balance
- Rhythm
- Emphasis

- 3) **Personal Creativity**

The life skills of “*critical thinking and decision making*” are being applied in the creative process. Items should show creativity and originality, along with an application of design principles and elements. Ask yourself, “*How have I shown personal creativity and applied the design principles and elements to the finished product?*” “*What makes my finished product unique to that of my peers?*”

Apparel Design and Construction (ADC) – Level 3 Skill Mastery Sheet

3 level

- ✿ This sheet is to be completed by the 4-H member as a means for determining “Progress toward Self-Determined Goals.” (4-H Recognition Model) It is not intended as a “Competitive” evaluation form.
- ✿ 4-H members use this sheet as a personal tool for setting and recording goals.
 - “Things I want to learn.”
 - “Things I learned.”
- ✿ The mastery sheet has been designed as a guide for the “basics” to be learned in project development. Some youth will go beyond the basics for their level and others will have to visit a prior level to gain skills necessary for doing project work at their age level.
- ✿ This sheet will serve as a great tool to look back and see what was learned from year to year. We encourage you to keep a copy of the sheet in your ADC Portfolio and/or to assist with your 4-H medal form or record book.
- ✿ If this sheet is being used for a competitive event a new form must be completed for each event. DO NOT reuse a form.

Name _____ County/Club _____ Year 20 _____

Class Number _____ Class Name _____

Brief Description of Project _____

ADC LEVEL THREE <i>Construction</i> – Grades 7-8	
Tools and/or Techniques	Construction Knowledge and/or Skill Gained 4-H member is to place a check <input checked="" type="checkbox"/> in the boxes below for each skill learned or knowledge gained in the construction of this project.
Applique	<input type="checkbox"/> Applique is a decorative embellishment described as a contrasting fabric(s) design applied in a flat, decorative manner. An applique can be a single piece or a multi-layer design.
Buttons and Buttonhole	Continued to learn about buttons and buttonholes producing a product appropriate for end use, as well as a design feature. Flat/shank buttons sewn on with a thread shank <input type="checkbox"/> Buttonhole placement – Horizontal or vertical placement based on direction of greatest pull, grain and/or location (i.e. center front band or placket). <input type="checkbox"/> Seam Buttonhole <input type="checkbox"/> Keyhole buttonhole – machine or hand
Basting	Use basting technique appropriate for fabric and construction need. <input type="checkbox"/> Machine basting, hand basting, pin basting, etc.
Care	Continue to learn and understand the relationship of fiber content and care instructions on the final product. <u>My garment</u> Fiber content _____ Care for my garment: <input type="checkbox"/> machine wash and dry <input type="checkbox"/> machine wash and line dryer <input type="checkbox"/> hand wash and line dry <input type="checkbox"/> hand wash and lay flat to dry <input type="checkbox"/> dry cleaning

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Collar/Cuff	<p>Learning about collar/cuff design and construction - collar (and facing) interfaced, smooth, balanced, outer edge lies flat or almost flat against the garment; corners or edges do not roll upwards, edge stitched, understitched or top stitched when appropriate, points are sharp or curves are smooth, seams graded and facing secured and not visible.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Standing collar – two pieces, collar and band <input type="checkbox"/> Shawl Collar – collar cut as part of bodice front <input type="checkbox"/> Cowl neckline <input type="checkbox"/> Collar with front placket – knit collar or self-fabric <input type="checkbox"/> Cuff without placket – with or without facing, elasticized, Shirred, etc. <input type="checkbox"/> Lapped cuff without placket, but with button(s) and buttonhole(s) <input type="checkbox"/> Decorative Accent – collar/cuff focal point by style, color, trim, special feature, etc.
Crochet	<p>Continue learning to read and understanding crochet instructions and symbols and try new stitches.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Relief medallions and motifs used for applique or design feature <p>Stitches:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Waffle (or rib) stitch <input type="checkbox"/> Picot (Irish crochet) <input type="checkbox"/> Cluster stitch <input type="checkbox"/> Popcorn stitch <input type="checkbox"/> Star stitch <input type="checkbox"/> Puff stitch <input type="checkbox"/> Afghan stitch <input type="checkbox"/> Hairpin lace <input type="checkbox"/> Broomstick crochet <p>Freelance options:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Combining crochet with another material (i.e. leather, fabric, metal, plastic, etc.)
Cutting Tools	<p>Learned about the safe use of a rotary cutter and supplies</p> <ul style="list-style-type: none"> <input type="checkbox"/> Used a rotary cutter and self-healing mat <input type="checkbox"/> Used rotary supplies: rulers, gloves, weights, templates, etc.
Darts	<p>Continue to learn about dart construction – fitting, marking, stitching, securing and pressing.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Applied a straight dart, curved dart (concave and/or convex) and/or double pointed dart <input type="checkbox"/> Trimming and pressing wide darts
Fabric	<p>Continue to learn about fiber content, care, grain line (warp vs weft), woven vs knit, etc.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Natural fibers – source, characteristics and care of cotton, linen, wool/hair, silk and/or jute <input type="checkbox"/> Synthetic fibers –source, characteristics and care of nylon, polyester, acrylic, rayon, metallic, etc. <input type="checkbox"/> Woven fabric –batiste, broadcloth, chino, looped, jacquard, crape, tweed, gabardine, organdy, oxford, etc. <input type="checkbox"/> Non-woven –felt, netted, lace, batting, insulation, disposable textiles, foam, etc. <input type="checkbox"/> Knit – tricot, raschel, rib knit, jersey, etc. <input type="checkbox"/> Pile fabric – polar fleece, velvet, velveteen, chenille, corduroy, flannel, terrycloth, fake fur, etc.
Facing	<p>Learned to apply a facing along an edge and that is turned and lies flat finishing a neckline, waistline, armhole, etc.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Facing is graded, clipped, understitched, interfaced, tacked (hand or machine) and not visible from the right side of the garment. Exception – facing used as a decorative feature.
Fasteners	<p>Selected and applied appropriate fastener for end use and aesthetics when applicable.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fashion Snap/Gripper Snap/ring prong snap <input type="checkbox"/> Snap tape or Hook and Eye tape <input type="checkbox"/> Magnetic Closure <input type="checkbox"/> Frog Closure/metal frog-like closure
Hem	<p>Learned to select the best hem and hem depth for the project, easing fullness and using hemming tools for best results.</p> <p>Hemming by machine – check the stitch you used</p> <ul style="list-style-type: none"> <input type="checkbox"/> Blind stitch <input type="checkbox"/> Stretch stitch <input type="checkbox"/> Serged Overlock and/or Hemstitch <p>Hemming by hand – check the stitch you used</p> <ul style="list-style-type: none"> <input type="checkbox"/> Slip-stitch <input type="checkbox"/> Blind stitch <input type="checkbox"/> Catch stitch/Herringbone stitch <input type="checkbox"/> Hemming stitch <ul style="list-style-type: none"> <input type="checkbox"/> Decorative Hem – faced, bound, embroidered, scalloped, etc.
Interfacing/Under lining	<p>Continue to learn how to enhance garment structure and when to use appropriate interfacing product.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Underlining – Applied to garment pieces for additional shape, structure and body. <input type="checkbox"/> Tailoring Interfacing - Hair Canvas (fusible or sew-in) and/or Weft fusible

Apparel Design and Construction (ADC) – Level 3 Skill Mastery Sheet

<p>Knitting – w/needles, loom and board/machine</p>	<p>Continue learning to read and interpret knitting instructions and symbols, understanding gauge and tension, joining pieces with appropriate seam, new stitches and care.</p> <p>Knitting with hand-held needles:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Mixed color(s) to create design other than stripes <input type="checkbox"/> Bobbin knitting <input type="checkbox"/> Carry yarn <input type="checkbox"/> Reading a graph <input type="checkbox"/> Duplicate stitch <input type="checkbox"/> Combining knitting with another material (i.e. leather, fabric, metal, plastic, etc.) <p>Stitches or patterns:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Rib stitch variation (specify) _____ <input type="checkbox"/> Seed stitch <input type="checkbox"/> Double stitch <input type="checkbox"/> Window pane check <input type="checkbox"/> Basket rib <input type="checkbox"/> Basketweave <input type="checkbox"/> Cable <input type="checkbox"/> Duplicate stitch <input type="checkbox"/> Other stitch(s) (specify) _____ <p>Knitting with loom and board:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Multiple-color designs <input type="checkbox"/> Creating eyelets or holes <input type="checkbox"/> Joining tubes, sections, etc. <input type="checkbox"/> Combining knitting with another material (i.e. leather, fabric, metal, plastic, etc.) <p>Stitches or patterns:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seed Stitch <input type="checkbox"/> Rice stitch <input type="checkbox"/> Moss stitch <input type="checkbox"/> Single stitch <input type="checkbox"/> Box stitch <input type="checkbox"/> Cables <input type="checkbox"/> Basketweave <input type="checkbox"/> Other stitch(s) (specify) _____ <input type="checkbox"/> Machine Knitting – Use of knitting machine.
<p>Lining</p>	<p>Lining preserves shape, improves appearance, adds durability, preserves grain and bias lines, create a free-flowing drape, etc.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Learned how to select, cut and attach lining. <input type="checkbox"/> Underlining – Applied to garment pieces for additional shape, structure and body.
<p>Marking</p>	<p>Continue to learned how to transfer pattern markings to fabric and use marking in construction</p> <ul style="list-style-type: none"> <input type="checkbox"/> Marking with tailor tack
<p>Needle and Pins</p>	<p>Continue to learn about different hand and machine needles and sewing pins</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ball-point machine needle – used needle and an appropriate stitch on knit fabric. <input type="checkbox"/> Double machine needle – used for sewing two colors of thread in a decorative stitch/pattern <input type="checkbox"/> Other specialty needle/pin (specify) _____
<p>Pattern and Layout</p>	<p>Commercial Pattern</p> <ul style="list-style-type: none"> <input type="checkbox"/> Combined two or more pattern looks (not pieces) to achieve finished look/ensemble/combination. <input type="checkbox"/> Choose pattern and fabric that complement each other or that play to the primary design feature of the fabric design or pattern lines <p>Pattern alteration</p> <ul style="list-style-type: none"> <input type="checkbox"/> Alter commercial pattern for fit - learned to use the pattern’s basic measurements with personal measurements and make necessary adjustments on the pattern prior to cutting out the garments <input type="checkbox"/> Minor design alteration to a commercial pattern - a neckline, waist, collar, hem, etc. <p>Pattern placement on fabric</p> <ul style="list-style-type: none"> <input type="checkbox"/> Using notches/markings to match patterned/napped fabric – plaids, design, stripes, prints, corduroy, etc.
<p>Pleat(s)</p>	<p>Learn to fold/construct pleats that lay smooth. Check the pleat used</p> <ul style="list-style-type: none"> <input type="checkbox"/> Box pleat <input type="checkbox"/> Knife Pleat <input type="checkbox"/> Inverted Pleat <input type="checkbox"/> Tucks
<p>Pocket</p>	<p>Learned to apply a pocket for practical or decorative purpose</p> <ul style="list-style-type: none"> <input type="checkbox"/> Patch pocket – with or without flap <input type="checkbox"/> Welt pocket – single, double or double with flap

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Pressing	Continue to learn new pressing techniques and try new pressing equipment <input type="checkbox"/> Specify “new” equipment _____
Repair/Restore/Remodel	Learned to repair, restore or remodel apparel, housing equipment, etc. <input type="checkbox"/> Specify technique(s) _____
Seam	Continue to learn and apply new seam techniques <input type="checkbox"/> Welt seam – single or double <input type="checkbox"/> Lapped seam Learned to sew an enclosed seam <input type="checkbox"/> French or Mock French seam <input type="checkbox"/> Flat-felled seam
Seam Finish	Continued to learn new seam finishes, applying the best finish for my project. <input type="checkbox"/> Bound Edge – with commercial bias tape <input type="checkbox"/> Hong Kong
Serger	Continue to learn my serger <input type="checkbox"/> Apply ribbing at neckline, sleeves and or waist <input type="checkbox"/> Made trim using specialty yarns and/or thread on serger <input type="checkbox"/> Apply special thread, yarn or decorative trim with serger <input type="checkbox"/> Other specialized setting or attachment (specify) _____
Sewing Machine	Learning more about my sewing machine <input type="checkbox"/> Specialty sewing machine foot (specify) _____
Sleeves	Learned to set in sleeves. Type of Sleeve <input type="checkbox"/> Set-in <input type="checkbox"/> Flat inset <input type="checkbox"/> Cap <input type="checkbox"/> Raglan <input type="checkbox"/> Kimono
Staystitching	<input type="checkbox"/> Learned to stay stitch points of stress - with or without grain.
Trim(s)	Learned to apply trim. <input type="checkbox"/> Applied decorative trim – piping, pique, rick rack, braid, lace, beads, ribbon, soutache, etc.
Top Stitching	<input type="checkbox"/> Learned to top stitch for practical or decorative use.
Zipper	Continue to select and apply a zipper appropriate to the design and/or end use. <input type="checkbox"/> Invisible Application <input type="checkbox"/> Separating Application
BONUS - Skills learned from previous level(s)	We encourage members to continue to learn skills from the previous levels. Please list NEW skills learned or attach the skill level sheet(s) as a supplement. The list or attachment does not substitute for learning a minimum of two new skills for your Age Level.

General Comments (youth/project leader/judge) – We encourage thoughts and comments, so an additional sheet can be added.

Apparel Design and Construction (ADC) – Level 3 Skill Mastery Sheet

ADC LEVEL THREE *Design* – Grades 7-8

Design Knowledge and/or Skill Gained

4-H member is to check the box for each principle and element learned, identified and/or applied to the construction of this project.

	Pattern Design	Fabric/Yarn Design	Notion Design
Elements of Design	<input type="checkbox"/> Line <input type="checkbox"/> Shape and Form(s) <input type="checkbox"/> Texture <input type="checkbox"/> Color <input type="checkbox"/> Space	<input type="checkbox"/> Line <input type="checkbox"/> Shape and Form(s) <input type="checkbox"/> Texture <input type="checkbox"/> Color <input type="checkbox"/> Space	<input type="checkbox"/> Line <input type="checkbox"/> Shape and Form(s) <input type="checkbox"/> Texture <input type="checkbox"/> Color <input type="checkbox"/> Space
Principles of Design	<input type="checkbox"/> Harmony <input type="checkbox"/> Proportion/Scale <input type="checkbox"/> Balance <input type="checkbox"/> Rhythm <input type="checkbox"/> Emphasis	<input type="checkbox"/> Harmony <input type="checkbox"/> Proportion/Scale <input type="checkbox"/> Balance <input type="checkbox"/> Rhythm <input type="checkbox"/> Emphasis	<input type="checkbox"/> Harmony <input type="checkbox"/> Proportion/Scale <input type="checkbox"/> Balance <input type="checkbox"/> Rhythm <input type="checkbox"/> Emphasis

Briefly share how the three design features (pattern, fabric and notions) came together in the finished projects look.

ADC LEVEL THREE *Creativity* – Grades 7-8

Use this section to evaluate your creativity on the finished project. *What is creative expression?* Creativity starts with basic knowledge about the subject, personal motivation, flexible and original thinking, being able to take risks and ask questions and an ability to imagine different and workable solutions.

4-H member is to check the box <input checked="" type="checkbox"/> for each type of creativity learned, identified and/or applied to the construction of this project.	Creativity Excelled	Creativity Recognized	Creativity doesn't quite Click
Creative Appeal – first look makes good impression and draws you in	<input type="checkbox"/> Unique and flattering	<input type="checkbox"/> Nice but not unique	<input type="checkbox"/> Unique but a few too many risks taken
Creative Functionality – safe, fun and usable	<input type="checkbox"/> Exciting, fresh and usable	<input type="checkbox"/> Similar to peers work	<input type="checkbox"/> Too much without purpose or not functional
Creative Understanding – illustrates an understanding of blending facts and technique	<input type="checkbox"/> Obvious quality technique learned and understood	<input type="checkbox"/> Applied a variety of techniques	<input type="checkbox"/> Technique needs more work to pull look together
Creative Organization – elements and principles of design and construction create a total look	<input type="checkbox"/> All details well performed creating a unique finished project	<input type="checkbox"/> Thought present in an ordinary sense, little risk	<input type="checkbox"/> Details conflict, distract or overpower each other

Youth Signature _____ Date _____