

### **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 producing a quality product/project demonstrating 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.

#### How to use the Skill Master Sheet when working with Youth

The mastery sheet is designed as a guide or outline. It contains techniques/skills/knowledge fundamental to project development. Some youth will go beyond the basics for their level and others will have to visit a prior level to gain skills

OK Project Guides and Resources for Design and Construction

necessary for doing project work at their grade level.

The terms in the guide will be found in 4-H curriculum/4-H sample cards/sewing books and online resources. Volunteers/project leaders/Extension staff planning and teaching workshops/day camps/project groups/etc. are encouraged to select projects that include skills and knowledge contained in the skill mastery sheet.



National 4-H Curriculum

The skill mastery sheet is a tool for learning to set and record goals for project work.

Setting Goals - "Things/skills I want to learn making my project." OR "Things/skills I will learn in the workshop/day camp."

Recording Goals – "Things/skills I set out to learn." "Other things/skills I learned in the process."

<u>Setting Goals</u> - Before starting the project, youth mark things they want to learn, or they will be learning. Depending on the age group, the project leader/volunteer may have the youth go through and mark the things they will be learning based on the project being constructed by the group.

Recording Goals - Once the project is completed, have the youth reflect on what they learned by revisiting what they marked at the beginning and thinking about other things they learned in the process. This is a time to CELEBRATE by checking off everything they learned!

We encourage youth to keep a copy of the sheet in their Portfolio and/or to assist with filling out a 4-H medal form/record book.

If this sheet is used for a competitive event, a new form should be completed for each event. This allows a judge to provide feedback.

### **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 a *product*. The 4-H word for 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 The elements and principles of design are the rules a designer must follow to create an effective and attractive composition apparel/accessory/home decor/textile/craft/quilt/knitting/crochet/etc. The designer/craftsman/interior designer/textile artist/stylist/retailer/sewer/marketing-communication-specialist/architect/etc. Learn how to successfully use the concept in choosing materials (fabric, patterns, wallpaper notions, paint, fonts, props, etc.) to produce a creative and visually appealing finished product.

#### 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?"

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

Apparel Design & Construction (ADC)
Design and Construction (IDC)
Hobby & Textile Design & Construction (HTDC) categories



This sheet is completed by the 4-H member to reflect on what was learned making the exhibit. Mark only those things you learned. Look up terms/words if you can't remember or don't know what they mean.

Grades

Name	County/Club	Year 20
Class Number	Class Name	

Brief Description of Project

Apparel Design and Construction – Grades 3-5				
Tools and/or Techniques	Construction Knowledge and/or Skill Gained  4-H member is to place a check ☑ in the boxes for each skill learned or knowledge gained in the construction of this project.			
Basting	Learned why basting is necessary to accurate construction. Used the following basting techniques  □ Pin basting and/or Machine basting			
Buttons	Learned to select the correct button size and color as well as properly attach a flat button.  □ Flat button with thread shank			
Care	<ul> <li>□ Learned how to read a fabric/interfacing bolt label and notion packaging for garment care.</li> <li>□ Fiber content of my garment</li> <li>Care for my garment:</li> <li>□ machine wash and dry</li> <li>□ hand wash and line dry</li> <li>□ hand wash and line dry</li> <li>□ dry cleaning</li> </ul>			
Casing	Learned proper casing construction.  Casing the right width for the elastic/cord/rod, top edge is edge stitched and insertion point closed or finished appropriately.  ** For a waistband with an elastic or drawstring casing see Waistband.			
Crochet	Began learning to read and understand crochet instructions and symbols, winding and joining yarn, increasing decreasing as called for in a pattern, gauge and tension and basic stitches.  Crochet 101 - casting on, chain stitch, double chain stitch, turning chains attaching yarn of another color, and finishing off Slip stitch, chain stitch and/or single crochet Half Double stitch and/or Double stitch Treble stitch and/or Double Treble stitch Crocheting in rounds: increasing, decreasing as called for by pattern design. Open or filet mesh, block or solid mesh, long single stitch, shell stitch and variations			
Cutting Tools	Learned the difference and use of various cutting tools.   Sewing Shears and/or Pinking Shears  Scissors			
Fabric	Began learning about fiber content, care, and grain line.  ☐ Straightening Grain - Learned to straighten the grain of fabric, aligning the warp and weft threads or loops at right angles, by pulling thread or tearing fabric along weft threads.  ☐ Pre-shrink fabrics and/or interfacing - Allows for initial fabric shrinkage by washing/drying in the way the garment/project will be cared for after construction.  ☐ Woven fabric – plain, basket and/or various twill weaves  ☐ Non-woven – interfacing, felt, netted, lace, fleece, interlocking knit, etc.			

# Apparel and Construction (ADC) – SKILL MASTERY SHEET



Facing	Learned to apply along an edge - a neckline, waistline, armhole, etc.  Facing is graded, clipped, under-stitched, interfaced, tacked (hand or machine) and not visible from the right side of the garment. Exception – facing used as a decorative feature.
Gathering	Learned to use gathering stitch to draw up fabric and adjust fullness to specified length.  Machine gathering stitch appropriate stitch length for the fabric and removed gathering stitch after joining two pieces of fabric and stitching is complete.
Hem	Learned why hem depth affects the look and hang of a finished product and how to put in a simple hem.
	Hand hem (choose the stitch you used) – $\Box$ simple slipstitch, $\Box$ blind—stitch, $\Box$ catch-stitch
	□ Serge hem
Interfacing	Continued to learn how to select appropriate interfacing based on fabric type and end use, as well as how to apply interfacing to garment pieces and when to use sew-in vs fusible interfacing  Sew-in interfacing – woven and non-woven  Fusible interfacing – knit and non-woven
Knitting –	Began learning to read and interpret simple knitting instructions and symbols, understanding gauge and
w/needles, loom and	tension, seam methods and holding needles and yarn to make basic stitches.
board/machine	Knitting with hand-held needles:   How to wind knitting yarn properly into a ball
·	☐ Knitting 101 - Single cast on and/or Double cast on, picking up dropped stitch, making swatch to
	check gauge, and binding of - making flat edge, stockinette stitch edge, open edge, and/or slipstitch edge
	☐ Knit stitches - Garter stitch and/or stockinette stitch
	Basic Purl stitch and/or Knit and purl stitches combination
	☐ Increase and decrease stitches
	☐ Joining knitted pieces and/or blocking garment  Knitting with loom and board:
	☐ Loom and Board Knitting 101 - Casting on, E-wrap (twisted knit stitch), gathering and/or flat
	removal and colored stripes
	☐ Colored stripes – yarn change creating stripes
	☐ Purl and/or Knit stitch ☐ Ribbing
	☐ Increase and decrease stitches
	☐ Joining knitted pieces and/or blocking garment
	Machine Knitting
	☐ Use of knitting machine.
Marking	Learned about different marking tools, when and how to use and applied one or more to my project. $\Box$ Washable marker, tailor's chalk and/or tracing wheel and paper
Needle and Pins	Learned how to safely use and store needles and pins.
	$\square$ Learned to thread a needle and safely store needles in a pincushion
	Select appropriate size and type of hand sewing needles based on task of hand stitching
	☐ Select appropriate size and type of machine needles based on type and weight of fabric

# Apparel Design and Construction (ADC) – SKILL MASTERY SHEET



Pattern and Layout	Began learning to read, understand and apply  □ Pattern directions and symbols  Commercial Pattern Selection  □ Learn how to select sewing patterns that will compliment one's personal physique and fits well  Pattern placement on fabric.  □ Fabric grain and pattern grain line match insuring proper appearance (hang) of garment  □ Use of tape measure and straight pins for pattern placement accuracy  □ Using notches to match patterned fabric – stripes, prints, etc.  □ Fabric with nap - all pattern pieces in one direction  Cutting out pattern pieces using:  □ Straight pins are placed perpendicular to pattern edge when pinning pattern, not horizontal  □ Holding shears correctly for a clean, even and accurate cut  □ Cut along the correct line, observing, and using notches and respecting appropriate seam allowance
Pocket	Learned to apply a pocket for practical or decorative purpose  Seam pocket – placed in the side or front seam and is well hidden  Patch pocket – separate piece of fabric attached to the garment
Pressing	Using an iron and ironing board. Learned  The difference in pressing and ironing  General pressing techniques – up and down motion with correct temperature, steam, using tip of the iron, with the grain and not pressing over pins, basting threads and buttons
Recycled/Upcycled	Learned to repair, restore, or remodel apparel, housing equipment, etc.
Seam	Learned why seam width, stitches and accuracy are important to the fit of the finished garment. Choose and applied the best seam for my project:  Straight-stitch Stretch-stitch Overlock seam by serger Cross seam matched – normally occur in under arm where sleeve is sewn to bodice or in the crotch where the inner leg seams are sewn together.  Top stitched seam – double or single
Seam Finish	Learned about seam finishes and their importance. Choose and applied the best seam finish for my project.  Stitch and pink Zigzag Bdge stitched Overlocked by serger Overcast – zigzag, serge or hand stitched Turned edge/Clean Finish
Serger	Learned my serger  Identify parts of the serger Changing a needle Threading the machine - traditional and/or tie-on method Cleaning serger with machine brush or canned air

# Apparel and Construction (ADC) – SKILL MASTERY SHEET



Sewing Machine	Learned my sewing machine  ☐ Parts of a machine  ☐ Learned to thread a sewing machine, as well as wind and change a bobbin  ☐ Completing regular maintenance — cleaning lint with a brush and oiling, changing bent, barbed or broken needles and checking or adjusting tension
Thread	Learned about thread  ☐ Color selection – Select one shade darker as it sews in lighter  ☐ Choose background color of print for thread color to be less visible, etc.  ☐ Thread fiber content and quality – effect on fabric and machine
Yarn/thread and knitting needles/crochet hook	Began learning to about yarn/thread and needles and hooks use to create item or project  Fiber content and yarn care influence selecting the right yarn/thread for a project.  Needle and/or hook size influence gauge and the finished product.  Created test swatch to check gauge  Experimented with different yarn weights and textures
Waistband	Learned appropriate selection and use of  □ Elastic waistband with casing □ Elastic waistband with decorative elastic □ Mock waistband – flat front band with elastic back □ Elastic Waistband finishing techniques - elastic secured so it will not roll by using either stitch in the ditch by machine or hand, elastic insert point closed and top edge is edge stitched  More advanced waistband -Learned to construct a waistband with interfacing/non-roll stiffener and
	appropriate finishing techniques - grading seam allowance, clipping, under-stitching, stitch-in-the-ditch, etc.   Faced waistband with interfacing  Standard waistband with interfacing or non-roll stiffener
Zipper	Learned to select and apply a zipper (select one)  Center application Lapped Application Exposed Application

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

### Apparel Design and Construction (ADC) - SKILL MASTERY SHEET



# **Apparel Design and Construction** Grades 3 5

Design Knowledge and/or Skill Gained – The elements and principles of design are important in coordinating fabrics and patterns that are visually pleasing to eye, the body, and communicate a sense of style.

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

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	Pattern Design	gn Fabi	ric/Yarn Design	Notion Design
Elements of Design	☐ Line	☐ Line		☐ Line
	☐ Shape and Form(	s) $\square$ Shape	and Form(s)	☐ Shape and Form(s)
	☐ Texture	☐ Textu	re	☐ Texture
	☐ Color	☐ Color		□ Color
	☐ Space	☐ Space		☐ Space
Principles of Design	☐ Harmony	☐ Harmo	ony	☐ Harmony
·	☐ Proportion/Scale		rtion/Scale	☐ Proportion/Scale
	☐ Balance	□ Baland		☐ Balance
	☐ Rhythm	☐ Rhyth		☐ Rhythm
	☐ Emphasis	☐ Emph		☐ Emphasis
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Briefly share how the three	design features (pa	ttern, fabric, and no	tions) came together	in the finished projects
look.				
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	• • • •	n and Construction		
Use this section to evaluate your	creativity on the finished	I project. What is creativ	ve expression? Creativity	
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Youth Signature Date