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STANDARDS	PAGE REFERENCES
<p>STANDARD</p>	
<p>20.0113-01 Students will identify basic sewing equipment.</p>	
<p>20.0113-0101 Identify sewing machine parts and their function, safety, and maintenance. National Standard 16.4.1</p>	
<ul style="list-style-type: none"> Identify the needle stitch plate, feed dogs/system, presser foot, bobbin case, spool pin, upper thread tension, presser foot lever/lifter, thread take-up lever, foot pedal, handwheel, stitch length control, and stitch width control 	<p>Student Edition: 455-464, 465-471, 472-477 <i>4-1 Parts of a Sewing Machine</i> 456-457 <i>5-2 Parts of a Serger</i> 465</p>
<ul style="list-style-type: none"> Demonstrate how to properly thread the sewing machine, replace a needle and how to turn the hand wheel when sewing 	<p>Student Edition: 459-460 <i>4-5 Threading the Machine</i> 459 4-5 459 4-7 460 <i>4-8 How a Stitch is Formed</i> 460</p>
<ul style="list-style-type: none"> Identify sewing safety precautions and procedures 	<p>Student Edition: 462-466 <i>4-13 Correcting Stitching Problems</i> 463 <i>Safety Tip</i> 463, 465</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Clean, oil, and care for the machine according to machine manual 	Student Edition: 464, 471
<p>20.0113-0102 Introduce the serger and its function. safety and maintenance. National Standard 16.4.1</p>	
<ul style="list-style-type: none"> Discuss the advantages of the serger. 	Student Edition: 465-469 <i>5-6 Three-Thread Serger Stitches</i> 466 <i>5-7 Four-Thread Stitches</i> 467 <i>5-8 Two-Thread Serger Stitches</i> 467 <i>5-9 Two-Thread Chain Stitch</i> 568 <i>5-10 Rolled Hemstitch</i> 568 <i>5-11 Three-Thread Stitch</i> 568 <i>5-12 Creating a Flatlock Seam</i> 568 <i>5-13 Cover Stitch</i> 569 5-14 569
<ul style="list-style-type: none"> Practice operating the serger. 	Student Edition: 465-470 <i>5-16 Correcting Serging Problems</i> 470 <i>Sewing Tip</i> 470
<ul style="list-style-type: none"> Discuss safety and maintenance of a serger. 	Student Edition: 471
<p>20.0113-0103 Resolve sewing and serger-malfunctions.</p>	
<ul style="list-style-type: none"> Explain how to remedy skipped stitches, lint removal, noisy sewing machine, puckered seams, snagged fabric, tension, breaking of needle, etc. 	Student Edition: 463, 469-470 <i>4-13 Correcting Stitching Problems</i> 463 <i>5-16 Correcting Serging Problems</i> 470 <i>Sewing Tip</i> 470
<ul style="list-style-type: none"> Complete basic problems encountered when sewing: thread jam, broken needle, incorrect stitch formation, etc. 	Student Edition: 463, 469-470 <i>4-13 Correcting Stitching Problems</i> 463 <i>5-16 Correcting Serging Problems</i> 470 <i>Sewing Tip</i> 470

STANDARDS	PAGE REFERENCES
<p>20.0113-0104</p>	
<p>Identify sewing equipment, function, and safety procedures. National Standard 16.4.1</p>	
<ul style="list-style-type: none"> Identify a seam ripper, dressmaker pins, shear/scissors, pinking shears, rotary cutter and mat, seam gauge, tape measure, and transparent rulers 	<p>Student Edition: 472-477 <i>6-1 Measuring Tools</i> 472 6-2 473 <i>6-3 Cutting Tools</i> 475 <i>6-4 Marking Tools</i> 475 <i>6-5 Stitching Tools</i> 477 <i>6-6 Pressing Equipment</i> 477</p>
<ul style="list-style-type: none"> List sewing equipment safety precautions, procedures, and maintenance 	<p>Student Edition: 472-477 6-2 473 <i>Safety Tip</i> 473 <i>Sewing Tip</i> 474, 475, 476, 477</p>
<p>STANDARD</p>	
<p>20.0113-02 Students will identify basic pressing equipment.</p>	
<p>20.0113-0201</p>	
<p>Identify parts and functions of irons. National Standard 16.4.3</p>	
<ul style="list-style-type: none"> Identify temperature settings 	<p>Student Edition: 476-477, 511 <i>Sewing Tip</i> 477</p>
<ul style="list-style-type: none"> Explain safety procedures 	<p>Student Edition: 476-477, 511-513 <i>Safety Tip</i> 512 <i>Sewing Tip</i> 477</p>
<ul style="list-style-type: none"> Explain the maintenance of an iron 	<p>Student Edition: 476-477, 511 <i>Sewing Tip</i> 477</p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0202</u></p>	
<p>Identify basic pressing equipment, functions, safety procedures and maintenance. National Standard 16.4.3</p>	
<ul style="list-style-type: none"> Identify pressing cloth, seam roll, tailor's ham, sleeve board 	<p>Student Edition: 476-477 <i>6-6 Pressing Equipment 477</i></p>
<ul style="list-style-type: none"> Complete pressing/ironing techniques 	<p>Student Edition: 512-513, 514-515 <i>14-4 Pressing Gathers 513</i> <i>14-5 Using Steam on Fullness 513</i> <i>15-5 Pressing Dart Flat 515</i> <i>15-6 Pressing Dart to the Side 515</i> <i>15-8 Pressing Wide Dart Open 515</i></p>
<ul style="list-style-type: none"> Demonstrate the use of fusables 	<p>Student Edition: 451, 554 <i>3-7 Fusible Web 451</i> <i>26-3 Applying Fusible Interfacing 554</i></p>
<p>STANDARD</p>	
<p>20.0113-03 Students will identify the characteristics and care of specific textiles.</p>	
<p><u>20.0113-0301</u></p>	
<p>Identify basic fibers, the characteristics, use and care of each textile. National Standards 16.2.1, 16.2.2, 16.2.5</p>	
<ul style="list-style-type: none"> Identify natural fibers: cotton, linen, silk, wool 	<p>Student Edition: 197, 199-203, 210, 590 <i>11-4 Information on Natural Fibers 199</i> <i>11-5 200</i> <i>11-9 202</i> <i>11-19 Identifying Fibers in the Lab 210</i> <i>How to Identify Fibers 211</i> <i>Making Connections #1 213</i></p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Identify synthetic fibers: nylon, polyester, acrylic, rayon, spandex, acetate 	<p>Student Edition: 203-210, 226-227, 590 <i>11-13 Information on Manufactured Fibers</i> 206 <i>11-14 Trade Names for Manufactured Fibers</i> 207 11-15 208 11-16 208 11-17 209 <i>11-19 Identifying Fibers in the Lab</i> 210 <i>How to Identify Fibers</i> 211 <i>Marking Connections #2</i> 213</p>
<ul style="list-style-type: none"> Identify blended yarns/threads 	<p>Student Edition: 197-198 11-1 197</p>
<ul style="list-style-type: none"> Practice stain removal techniques 	<p>Student Edition: 252-256 14-5 253 14-6 253 14-4 <i>Stain Removal Methods</i> 254-255</p>
<p>20.0113-0302 Discuss how fabric construction affects selection of fabric. National Standard 16.4.2</p>	
<ul style="list-style-type: none"> Identify the characteristics of woven fabrics 	<p>Student Edition: 219-221, 222-224, 593 12-9 219 12-12 222 12-13 223 12-14 223 12-15 223 12-16 223 <i>Apply Knowledge #2</i> 233</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Identify the characteristics of knit fabrics 	Student Edition: 224-226, 589 <i>12-19 225</i> <i>12-20 225</i> <i>12-21 225</i>
<ul style="list-style-type: none"> Identify the characteristics of non-woven/felting 	Student Edition: 226-227
STANDARD 20.0113-04 Students will follow the pattern envelope and guide sheet to compete the pre-construction skills at the introductory level.	
<u>20.0113-0401</u> Identify the information found on and in the pattern envelope.	
<ul style="list-style-type: none"> Identify important information on the pattern envelope: appropriate size, fabric type, notions, and yardage 	Student Edition: 440-444, 445, 481 <i>1-3 Pattern Envelope Back 442</i> <i>1-5 444</i> <i>2-1 445</i>
<ul style="list-style-type: none"> Identify important information found on the guide sheet: select pattern pieces, layout, and construction steps 	Student Edition: 481-482 7-3 483
<u>20.0113-0402</u> Complete pattern preparation	
<ul style="list-style-type: none"> Identify pattern tissue terminology/symbols: grainline, arrows, notches, small dots, square, triangles, buttons and buttonholes, cutting line, stitching line, fold lines 	Student Edition: 482-485, 486-489, 496-497 <i>7-4 Pattern Symbols and Lines 484</i> <i>7-5 485</i>
<ul style="list-style-type: none"> Complete necessary pattern adjustments: length or width 	Student Edition: 486-489 <i>8-2 Lengthening a Pattern 487</i> <i>8-3 Shortening a Pattern 487</i> <i>8-4 488</i> <i>8-5 489</i>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0403</u> Correctly lay out the pattern pieces on the fabric.</p>	
<ul style="list-style-type: none"> • Preshrink fabric 	<p>Student Edition: 490-491</p>
<ul style="list-style-type: none"> • Press and straighten grain, if necessary 	<p>Student Edition: 490, 491 9-3 491 9-4 491</p>
<ul style="list-style-type: none"> • Check for one-way and/or nap layout 	<p>Student Edition: 239, 494 <i>10-3 Special Layouts for Different Fabric Designs</i> 494</p>
<ul style="list-style-type: none"> • Identify correct layout 	<p>Student Edition: 492-494 <i>10-1 Fabric Folds</i> 492 <i>10-3 Special Layouts for Different Fabric Designs</i> 494</p>
<ul style="list-style-type: none"> • Check grainline 	<p>Student Edition: 491, 493 9-4 491 9-5 491 10-2 493</p>
<ul style="list-style-type: none"> • Double check all pieces before cutting 	<p>Student Edition: 495 11-1 495</p>
<p><u>20.0113-0404</u> Correctly pin and cut out the fabric pieces</p>	
<ul style="list-style-type: none"> • Use correct spacing and positioning of pins 	<p>Student Edition: 493</p>
<ul style="list-style-type: none"> • Select and use appropriate cutting tool(s) 	<p>Student Edition: 495</p>
<ul style="list-style-type: none"> • Cut notches away from the seam allowance 	<p>Student Edition: 495 11-2 495</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Keep the fabric as flat as possible when cutting pattern pieces out 	<p>Student Edition: 495 <i>Applying Knowledge #5 499</i></p>
<p>20.0113-0405 Correctly mark the necessary pattern markings on the fabric pieces.</p>	
<ul style="list-style-type: none"> Identify methods of marking 	<p>Student Edition: 495-497 <i>11-3 Using a Fabric-Marking Pen 496</i> <i>11-4 Marking with a Tracing Wheel and Paper 497</i> <i>11-5 Marking with Tailor's Chalk 497</i> <i>Applying Knowledge #2 499</i> <i>Sewing Tip 496</i></p>
<ul style="list-style-type: none"> Select and use the best type of marking for that fabric 	<p>Student Edition: 495-497 <i>11-3 Using a Fabric-Marking Pen 496</i> <i>11-4 Marking with a Tracing Wheel and Paper 497</i> <i>11-5 Marking with Tailor's Chalk 497</i> <i>Applying Knowledge #2 499</i> <i>Sewing Tip 496</i></p>
<p>STANDARD 20.0113-05 Students will complete construction techniques at the introductory level.</p>	
<p>20.0113-0501 Identify and practice basic construction techniques: basting, back stitching, pivoting, clean finish, clipping, notching, edge stitching, facing, fold line, grading/layering, interfacing, one-way directional patterns/prints, reinforce stitching, seam allowance, seam finishes, selvage, stay stitching, stitching line, stitch in the ditch, top stitching National Standard 16.4.5</p>	<p>Student Edition: 494, 501-505, 553-554 <i>10-3 Special Layouts for Different Fabric Designs 494</i> <i>12-2 Stay-Stitching 502</i> <i>12-3 Directional Stitching 502</i> <i>12-4 Backstitching 502</i> <i>12-5 Understitching 503</i> <i>12-6 Topstitching on Garmet 503</i> <i>12-8 Edgestitching 503</i> <i>12-9 Stitch-in-the-Ditch 503</i> <i>12-10 Zigzag Stitching 503</i></p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0502</u> Examine and select correct thread for the project. National Standard 16.4.5</p>	
<ul style="list-style-type: none"> Standard thread is all purpose/cotton wrapped polyester 	<p>Student Edition: 447</p>
<ul style="list-style-type: none"> Specialty threads: quilting, heavy duty, embroidery, metallic, etc. 	<p>Student Edition: 447, 457</p>
<ul style="list-style-type: none"> Serger thread is lighter weight than standard sewing machine threads 	<p>Student Edition: 471 <i>5-17 Serger Thread 471</i></p>
<ul style="list-style-type: none"> Quality thread prevents stitching problems 	<p>Student Edition: 447, 457, 471 <i>4-3 Choosing Thread, Needle Size and Stitch Length 458</i></p>
<p><u>20.0113-0503</u> Compare and select correct needles. National Standard 16.4.5</p>	
<ul style="list-style-type: none"> Identify needle types: universal, sharp and ball point 	<p>Student Edition: 455-456 <i>4-2 Sewing Machine Needles 455</i> <i>4-3 Choosing Thread, Needle Size and Stitch Length 458</i></p>
<ul style="list-style-type: none"> Needle sizes: the bigger the number the bigger the needle 	<p>Student Edition: 455-456 <i>4-2 Sewing Machine Needles 455</i> <i>4-3 Choosing Thread, Needle Size and Stitch Length 458</i></p>
<ul style="list-style-type: none"> Lengthwise groove on the needle carries the thread 	<p>Student Edition: 455 <i>4-2 Sewing Machine Needles 455</i></p>
<ul style="list-style-type: none"> Insert needle according to machine manual. 	<p>Student Edition: 457</p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0504</u></p>	
<p>Identify and construct standard seam widths and markings. National Standard 16.4.5</p>	
<ul style="list-style-type: none"> Standard seam width for commercial patterns is 5/8 inch 	<p>Student Edition: <i>7-4 Pattern Symbols and Lines</i> 484</p>
<ul style="list-style-type: none"> Always check guidesheet/instructions for correct seam width 	<p>Student Edition: 482-483 <i>7-4 Pattern Symbols and Lines</i> 484 7-5 485</p>
<ul style="list-style-type: none"> Identify 1/4, 3/8, 1/2, 5/8, and 3/4 inch width markings on the needle plate 	<p>Student Edition: 501-503</p>
<p><u>20.0113-0505</u></p>	
<p>Press garment correctly. National Standard 16.4.5</p>	
<ul style="list-style-type: none"> Identify direction seam allowance should be pressed 	<p>Student Edition: 514-515 <i>15-4 Pressing Directions on Darts</i> 514 <i>15-5 Pressing Dart Flat</i> 515 <i>15-6 Pressing Dart to the Side</i> 515 <i>15-8 Pressing Wide Dart Open</i> 515</p>
<ul style="list-style-type: none"> Pressing is an up and down motion; ironing is a sliding motion 	<p>Student Edition: 512-513, 514-515</p>
<ul style="list-style-type: none"> Press as you sew 	<p>Student Edition: 512-513, 514-515</p>
<ul style="list-style-type: none"> Use correct temperature for fabric 	<p>Student Edition: 512-513, 514-515 <i>14-5 Using Steam on Fullness</i> 513</p>
<ul style="list-style-type: none"> Use steam/moisture if appropriate 	<p>Student Edition: 513 <i>14-5 Using Steam on Fullness</i> 513 <i>Safety Tip</i> 512</p>
<ul style="list-style-type: none"> Use pressing cloth to prevent scorching and/or shine marks 	<p>Student Edition: 511-513 <i>14-2 Using a Pressing Cloth</i> 511 <i>14-3 Using Strips of Paper</i> 512</p>

STANDARDS	PAGE REFERENCES
STANDARD	
20.0113-06 Students will implement the various, basic construction techniques.	
<u>20.0113-0601</u> Complete appropriate seam and edge finishes. National Standard 16.4.5	
<ul style="list-style-type: none"> A seam finish is applied to the raw fabric edges, used to prevent raveling/fraying 	Student Edition: 506-510 <i>5-10 Rolled Hemstitch 468</i> <i>5-11 Three-Thread Flatlock Stitch 468</i> <i>5-12 Creating a Flatlock Seam 468</i> 5-14 469 <i>13-8 Overcast Stitch 507</i>
<ul style="list-style-type: none"> Identify terms: zigzagged, serged open, serged closed, clean finished, stitch and pink 	Student Edition: 501-505, 523 <i>12-10 Zigzag Stitching 503</i> <i>17-13 Machine Zigzag Finish 523</i> <i>17-14 Pinked Finish 523</i> <i>17-15 Hand-overcast Finish 523</i> <i>17-16 Hemmed Finish 523</i> <i>Serging Techniques 523</i>
<u>20.0113-0602</u> Construct a casing. National Standard 16.4.5	Student Edition: 527-528 <i>19-2 Folded Edge on Casing 527</i> <i>19-3 Opening on Casing 527</i> <i>19-4 Pinning and Stitching Casing 527</i> <i>19-5 Trimming Casing Seam 528</i> <i>19-6 Edgestitching Casing 528</i> <i>19-7 Casing within Garment 528</i>

STANDARDS	PAGE REFERENCES
<p>20.0113-0603 Construct the correct application techniques for a pocket. National Standard 16.4.5</p>	<p>Student Edition: 566-570 <i>31-1 In-Seam Pocket</i> 566 <i>31-2 Patch Pocket</i> 566 <i>31-3 Front Hip Pocket</i> 566 <i>31-4 Stitching Seam in One Step</i> 566 <i>31-5 Finishing Seam Allowances</i> 567 <i>31-6 Hemming Pocket</i> 567 <i>31-7 Stitching Pocket Hems</i> 568 <i>31-8 Completing Patch Pocket</i> 568 <i>31-9 Mitering a Corner</i> 568 <i>31-10 Marking Curved Pocket</i> 568 <i>31-11 Attaching Lining to Pocket</i> 568 <i>31-12 Stitching Lining to Pocket</i> 569 <i>31-13 Slip-Stitching the Opening</i> 569 <i>31-14 Stitching End Seams of Flap</i> 569 <i>31-15 Attaching Flap to Pocket</i> 569 <i>31-16 Completing the Flap</i> 570 <i>31-17 Reinforcing Pocket Edge</i> 570 <i>31-18 Stitching Front Pocket to Garment</i> 570 <i>31-19 Understitching Seam</i> 570 <i>31-20 Attaching Front to Back</i> 570 <i>31-21 Finished Waistlines and Hip Pockets</i> 570 <i>Sewing Tip</i> 567, 568, 569</p>
<p>20.0113-0604 Construct a buttonhole. National Standard 16.4.5</p>	<p>Student Edition: 532-533 <i>20-6 Machine-Stitched Buttonhole</i> 532 <i>20-7 Bound Buttonhole</i> 532 <i>20-8 Horizontal Buttonholes</i> 532 <i>20-9 Vertical Buttonholes</i> 532 <i>20-10 Lines to Mark for Buttonholes</i> 533 <i>20-11 Placing Foot over Buttonhole Mark</i> 533 <i>20-12 Cutting the Opening</i> 533</p>

STANDARDS	PAGE REFERENCES
<p>20.0113-0605 Secure a button by hand or machine. National Standard 16.4.5</p>	<p>Student Edition: 533- 534 <i>20-13 Marking Button Location</i> 533 <i>20-14 Attaching Sew-Through Button</i> 534 <i>20-15 Making a Shank</i> 534 <i>20-16 Attaching Shank Button</i> 534 <i>Sewing Tip</i> 534</p>
<p>20.0113-0606 Make a correct double fold hem. National Standard 16.4.5</p>	<p>Student Edition: 537-542 <i>22-2 Marking Hem Width</i> 538 <i>22-3 Easing in Hem Fullness</i> 538 <i>22-4 Tapering Seam Allowance</i> 538 <i>22-5 Machine Zigzag Hem Finish</i> 538 <i>22-6 Seam Tape Hem Finish</i> 539 <i>22-7 Pinked Hem Finish</i> 539 <i>22-8 Hemmed Finish</i> 539 <i>22-9 Built-in Blindstitch</i> 540 <i>22-10 Attaching Hem with Topstitch</i> 540 <i>22-11 Fusing a Hem</i> 540 <i>22-12 Slip-Stitching Hand-Rolled Hem</i> 540 <i>22-13 Trimming Hem Allowance</i> 542 <i>22-14 Pressing Hem Allowance</i> 542 <i>22-15 Stitching Again</i> 542 <i>22-16 Slip-Stitching Faced Hem</i> 542 <i>22-17 Clipped and Trimmed Seam</i> 542 <i>22-18 Edgestitching Hem with Pleat</i> 542 <i>Serging Techniques</i> 539, 541</p>
<p>20.0113-0607 Use commercially prepared directions/guidesheets throughout project construction.</p>	<p>Student Edition: 481-482 7-3 483</p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0608</u></p> <p>Complete one or more of the following hand stitches: blind stitch, hemstitch, slipstitch, whipstitch, or ladder stitch.</p>	<p>Student Edition:</p> <p>506-510</p> <p><i>13-1 Tying a Knot</i> 506</p> <p><i>13-2 Even Basting Stitch</i> 507</p> <p><i>13-3 Uneven Basting Stitch</i> 507</p> <p><i>13-4 Running Stitch</i> 507</p> <p><i>13-5 Backstitch</i> 507</p> <p><i>13-6 Pickstitch</i> 507</p> <p><i>13-7 Slip Stitich</i> 507</p> <p><i>13-8 Overcast Stitch</i> 507</p> <p><i>13-9 Hemming Stitch</i> 508</p> <p><i>13-10 Blindstitch</i> 508</p> <p><i>13-11 Catchstitch</i> 508</p> <p><i>13-12 Blind Catchstitch</i> 509</p> <p><i>13-13 Cross-stitch</i> 509</p> <p><i>13-14 Cross-Stitch Tack</i> 509</p> <p><i>13-15 Buttonhole Stitch</i> 509</p> <p><i>13-16 Blanket Stitch</i> 509</p> <p><i>13-17 Making a Thread Loop</i> 510</p> <p><i>13-18 French Tack</i> 510</p> <p><i>13-19 Starting a Chain Stitch</i> 510</p> <p><i>13-20 Completing a Chain Stitch</i> 510</p> <p><i>Serging Techniques</i> 508</p>
<p>STANDARD</p>	
<p>20.0113-07 Students will review and identify basic sewing, serger, and pressing equipment.</p>	
<p><u>20.0113-0701</u></p> <p>Identify sewing machine parts and their functions. National Standard 16.4.1</p>	
<ul style="list-style-type: none"> Explain the use of specialty feet (zipper, buttonhole, blind hem, and additional feet) 	<p>Student Edition:</p> <p>462, 464, 466</p> <p><i>4-1 Parts of a Sewing Machine</i> 456</p> <p>5-5 466</p>
<ul style="list-style-type: none"> Review owner’s guide for care and specific maintenance of the machine 	<p>Student Edition:</p> <p>SE: 464</p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0702</u></p>	
<p>Identify the parts of the serger. National Standard 16.4.1</p>	
<ul style="list-style-type: none"> Identify the needle stitch plate, feed dogs/system, presser foot, thread tensions, presser foot lever/lifter, hand wheel, stitch length control, stitch width control, and knives and loopers. 	<p>Student Edition: 465-466 <i>5-2 Parts of a Serger</i> 465 5-3 466 5-4 466</p>
<ul style="list-style-type: none"> Demonstrate how to replace a needle and how to turn the hand wheel when sewing. 	<p>Student Edition: 465-466</p>
<ul style="list-style-type: none"> Identify safety precautions and procedures when working with a serger. 	<p>Student Edition: 465 <i>Safety Tip</i> 465 <i>Sewing Tip</i> 470</p>
<ul style="list-style-type: none"> Clean, oil, and care for serger according to machine manual. 	<p>Student Edition: 471</p>
<ul style="list-style-type: none"> Practice securing seam ends. 	<p>Student Edition: 465-470 <i>5-12 Creating a Flatlock Seam</i> 468</p>
<p><u>20.0113-0703</u></p>	
<p>Practice advanced pressing techniques. National Standard 16.4.3</p>	
<ul style="list-style-type: none"> Incorporate the practice of “press as you sew” 	<p>Student Edition: 512-513, 514-515</p>
<ul style="list-style-type: none"> Use correct pressing equipment 	<p>Student Edition: 476-477, 511-513, 514-515 <i>6-6 Pressing Equipment</i> 477 <i>14-2 Using a Pressing Cloth</i> 511 <i>14-5 Using Strips of Paper</i> 512</p>

STANDARDS	PAGE REFERENCES
STANDARD	
20.0113-08 Students will review and identify types of fabric construction.	
<u>20.0113-0801</u> Identify basic fibers. National Standard 16.2.1	
<u>20.0113-0802</u> Identify various types of fabric construction. National Standard 16.4.2	
<ul style="list-style-type: none"> Identify basic weaves (plain, basket, twill, satin) 	Student Edition: 219-221, 222-224 12-9 219 12-12 222 12-13 223 12-14 223 12-15 223 12-16 223
<ul style="list-style-type: none"> Identify knits 	Student Edition: 224-226 12-19 225 12-20 225 12-21 225
<ul style="list-style-type: none"> Identify non-woven fabrics 	Student Edition: 226-227
STANDARD	
20.0113-09 Students will complete pre-construction techniques at the intermediate level.	
<u>20.0113-0901</u> Identify necessary pattern information and alterations. National Standard 16.4.5	
<ul style="list-style-type: none"> Measure accurately to determine the correct pattern size allowing for ease. 	Student Edition: 440-446, 486-487 1-3 <i>Pattern Envelope Back</i> 442 1-4 <i>Taking Your Measurements</i> 443 1-5 444 8-1 <i>Personal Measurements Chart</i> 486

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Use pattern envelope to determine correct type and amount of fabric. 	<p>Student Edition: 445-446 2-2 446</p>
<ul style="list-style-type: none"> Explain how to select correct pattern size. 	<p>Student Edition: 440-446, 486-487 <i>1-3 Pattern Envelope Back</i> 442 <i>1-4 Taking Your Measurements</i> 443 1-5 444 <i>8-1 Personal Measurements Chart</i> 486</p>
<ul style="list-style-type: none"> Practice taking body and pattern measurements. 	<p>Student Edition: 440-446, 486-487 <i>1-3 Pattern Envelope Back</i> 442 <i>1-4 Taking Your Measurements</i> 443 1-5 444 1-6 444 <i>8-1 Personal Measurements Chart</i> 486</p>
<ul style="list-style-type: none"> Make necessary pattern alterations. 	<p>Student Edition: 486-489 7-5 485 <i>8-2 Lengthening a Pattern</i> 487 <i>8-3 Shortening a Pattern</i> 487 <i>8-4 Adjusting Width on a Pattern</i> 488 8-5 489 <i>Applying Knowledge #4</i> 499</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Select appropriate fabric, yardage, and notions for the project 	<p>Student Edition: 445-446, 447-451 <i>1-3 Pattern Envelope Back</i> 442-443 2-1 445 3-1 447 3-2 448 3-3 <i>Basic Button Types</i> 448 3-4 <i>Types of Fasteners</i> 449 3-5 <i>Tapes and Trims</i> 450 3-6 <i>Elastics</i> 451 <i>Sewing Tip</i> 446, 447, 451</p>
<p><u>20.0113-0902</u> Apply appropriate fabric and pattern preparation, layout, cutting and marking techniques. National Standard 16.4.5</p>	
<ul style="list-style-type: none"> Review pattern layout 	<p>Student Edition: 481-482 7-3 483 <i>Applying Knowledge #3</i> 499</p>
<ul style="list-style-type: none"> Review pattern placement 	<p>Student Edition: 492-494 10-2 <i>Checking the Grain Line</i> 493 <i>Applying Knowledge #5</i> 499</p>
<ul style="list-style-type: none"> Discuss one-way directional/nap layout 	<p>Student Edition: 494 10-3 <i>Special Layouts for Different Fabric Designs</i> 494</p>
<p><u>20.0113-0903</u> Practice correct cutting techniques. (Refer to objective 20.0113-0404) National Standard 16.4.5</p>	
	<p>Student Edition: 495 <i>Applying Knowledge #5</i> 499</p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-0904</u> Demonstrate correct marking techniques. (Refer to objective 20.0113-0405) National Standard 16.4.5</p>	<p>Student Edition: 495-497 <i>11-3 Using a Fabric-Marking Pen</i> 496 <i>11-4 Marking with a Tracing Wheel and Paper</i> 497 <i>11-5 Marking with Tailor's Chalk</i> 497 <i>Applying Knowledge #2</i> 499 <i>Sewing Tip</i> 496</p>
<p>STANDARD 20.0113-10 Students will complete correct construction techniques at the intermediate level.</p>	
<p><u>20.0113-1001</u> Practice intermediate stitching techniques. National Standard 16.4.5</p>	
<ul style="list-style-type: none"> Review thread characteristics and selection 	<p>Student Edition: 447, 457</p>
<ul style="list-style-type: none"> Review needle characteristics and selection 	<p>Student Edition: 455-456 <i>4-2 Sewing Machine Needles</i> 455 <i>4-3 Choosing Thread, Needle Size and Stitch Length</i> 458</p>
<ul style="list-style-type: none"> Identify stitching terminology: dart, ease stitching, gathering, pleat, tuck, understitching, staystitching 	<p>Student Edition: 501-505, 514-515, 518, 551-552 <i>12-2 Stay-Stitching</i> 502 <i>12-5 Understitching</i> 503 <i>15-1 Sewing a Dart</i> 514 <i>16-7 Ease Stitching</i> 518 <i>18-7 Understitching</i> 525</p>
<p><u>20.0113-1002</u> Complete appropriate techniques for refining enclosed seams (clipping, notching, layering/grading, trimming)</p>	<p>Student Edition: 523 <i>17-13 Machine Zigzag Finish</i> 523 <i>17-14 Pinked Finish</i> 523 <i>17-15 Hand-Overcast Finish</i> 523 <i>17-16 Hemmed Finish</i> 523 <i>Serging Techniques</i> 523 <i>Sewing Tip</i> 525</p>

STANDARDS	PAGE REFERENCES
<p>20.0113-1003</p> <p>Practice correct application techniques for attaching interfacings and facings.</p>	
<ul style="list-style-type: none"> Practice selecting and applying interfacings 	<p>Student Edition:</p> <p>450-451, 553</p> <p>26-1 553</p> <p>26-2 <i>Stitching Interfacing</i> 553</p> <p><i>Sewing Tip</i> 451, 553, 554</p>
<ul style="list-style-type: none"> Discuss and practice how to apply a facing 	<p>Student Edition:</p> <p>524-526</p> <p>18-1 <i>Shaped Facing</i> 524</p> <p>18-2 <i>Extended Facing</i> 524</p> <p>18-3 <i>Bias Facing</i> 524</p> <p>18-4 <i>Constructing the Facing</i> 524</p> <p>18-5 <i>Armhole Facing</i> 525</p> <p>18-6 <i>Grading and Clipping Extended Facing</i> 525</p>
<p>20.0113-1004</p> <p>Construct techniques for darts, tucks, pleats, or gathering.</p>	<p>Student Edition:</p> <p>501-505, 514-515, 518, 551-552</p> <p>12-2 <i>Stay-Stitching</i> 502</p> <p>12-5 <i>Understitching</i> 503</p> <p>15-1 <i>Sewing a Dart</i> 514</p> <p>16-7 <i>Ease Stitching</i> 518</p> <p>18-7 <i>Understitching</i> 525</p>
<p>20.0113-1005</p> <p>Construct techniques for constructing sleeves (kimono, raglan, set in (closed seam open/flat)</p>	<p>Student Edition:</p> <p>559-561</p> <p>29-2 <i>Stitching Open Sleeve to Garment</i> 559</p> <p>29-3 <i>Stitching Continuous Underarm Seam</i> 560</p> <p>29-4 <i>Machine Basting on Sleeve</i> 560</p> <p>29-5 <i>Pinning and Adjusting Fullness</i> 560</p> <p>29-6 <i>Stitching Sleeve to Armhole</i> 560</p> <p>29-7 <i>Pressing Seam Allowance</i> 561</p> <p>29-8 <i>Dart in Raglan Sleeve</i> 561</p> <p>29-9 <i>Stitching Diagonal Seams</i> 561</p> <p>29-10 <i>Stitching Underarm Seams</i> 561</p>

STANDARDS	PAGE REFERENCES
<p><u>20.0113-1006</u></p> <p>Apply correct techniques for inserting zippers (centered, lapped, fly, or exposed/sport).</p>	<p>Student Edition:</p> <p>448, 535-536</p> <p>3-2 448</p> <p><i>21-1 Basing Centered Zipper 535</i></p> <p><i>21-2 Completed Center Zipper 536</i></p> <p><i>21-3 Stitching First Lap 536</i></p> <p><i>21-4 Sewing on Fold 536</i></p> <p><i>21-5 Completed Lapped Zipper 536</i></p>
<p><u>20.0113-1007</u></p> <p>Learn uses of and apply an appropriate closure technique: snaps, hook and eye, pant/skirt hook.</p>	<p>Student Edition:</p> <p>530-531</p> <p><i>20-1 Heavy-Duty Hook and Bar 530</i></p> <p><i>20-2 Edges That Meet 530</i></p> <p><i>20-3 Edges That Overlap 530</i></p> <p><i>20-4 Sewing on Snaps 531</i></p> <p><i>20-5 Hook-and-Loop Tape 531</i></p> <p><i>Sewing Tip 531</i></p>
<p><u>20.0113-1008</u></p> <p>Learn correct application techniques for a trim or other decorative technique: applying/inserting trims, ruffles, lace, piping, decorative stitching, gripper snaps, machine embroidery or appliques.</p>	<p>Student Edition:</p> <p>286, 450, 550, 577, 579-580</p> <p><i>24-8 Piped Seam 550</i></p> <p><i>33-19 Pinning and Basting Piping 577</i></p> <p><i>33-20 Pinning and Basting Stitching Seam 577</i></p> <p><i>33-21 Stitching Close to Cording 577</i></p> <p><i>33-22 Stitching Corded Seam 577</i></p> <p><i>34-2 Stitches for Gathering 579</i></p> <p><i>34-3 Stitching Ruffle 579</i></p> <p><i>34-4 Attaching Rickrack to Double-Edge Ruffle 579</i></p> <p><i>34-5 Stay-Stitching and Clipping Inner Edge 580</i></p> <p><i>34-6 Attaching Ruffle to Garment 580</i></p> <p><i>Serger Techniques 580</i></p>

STANDARDS	PAGE REFERENCES
<p data-bbox="277 302 444 331"><u>20.0113-1009</u></p> <p data-bbox="277 348 932 378">Identify types and complete correct application of hems.</p>	
<ul data-bbox="191 399 769 520" style="list-style-type: none"> Complete one of the following hemming techniques: hand stitched hems, double fold hem, machine blind hem, rolled hem or other hemming techniques 	<p data-bbox="824 399 1029 428">Student Edition:</p> <p data-bbox="824 445 925 474">537-542</p> <p data-bbox="824 491 1172 520"><i>22-2 Marking Hem Width</i> 538</p> <p data-bbox="824 537 1218 567"><i>22-3 Easing in Hem Fullness</i> 538</p> <p data-bbox="824 583 1247 613"><i>22-4 Tapering Seam Allowance</i> 538</p> <p data-bbox="824 630 1266 659"><i>22-5 Machine Zigzag Hem Finish</i> 538</p> <p data-bbox="824 676 1218 705"><i>22-6 Seam Tape Hem Finish</i> 539</p> <p data-bbox="824 722 1162 751"><i>22-7 Pinked Hem Finish</i> 539</p> <p data-bbox="824 768 1123 798"><i>22-8 Hemmed Finish</i> 539</p> <p data-bbox="824 814 1146 844"><i>22-9 Built-in Blindstitch</i> 540</p> <p data-bbox="824 861 1295 890"><i>22-10 Attaching Hem with Topstitch</i> 540</p> <p data-bbox="824 907 1117 936"><i>22-11 Fusing a Hem</i> 540</p> <p data-bbox="824 953 1328 982"><i>22-12 Slip-Stitching Hand-Rolled Hem</i> 540</p> <p data-bbox="824 999 1256 1029"><i>22-13 Trimming Hem Allowance</i> 542</p> <p data-bbox="824 1045 1250 1075"><i>22-14 Pressing Hem Allowance</i> 542</p> <p data-bbox="824 1092 1130 1121"><i>22-15 Stitching Again</i> 542</p> <p data-bbox="824 1138 1253 1167"><i>22-16 Slip-Stitching Faced Hem</i> 542</p> <p data-bbox="824 1184 1282 1213"><i>22-17 Clipped and Trimmed Seam</i> 542</p> <p data-bbox="824 1230 1299 1260"><i>22-18 Edgestitching Hem with Pleat</i> 542</p> <p data-bbox="824 1276 1169 1306"><i>Serging Techniques</i> 539, 541</p>
<ul data-bbox="191 1331 743 1390" style="list-style-type: none"> Apply correct edge finishes: clean finished, zigzag, serged, stitched and pinked 	<p data-bbox="824 1331 1029 1360">Student Edition:</p> <p data-bbox="824 1377 925 1407">506-510</p> <p data-bbox="824 1423 1140 1453"><i>5-10 Rolled Hemstitch</i> 468</p> <p data-bbox="824 1470 1273 1499"><i>5-11 Three-Thread Flatlock Stitch</i> 468</p> <p data-bbox="824 1516 1237 1545"><i>5-12 Creating a Flatlock Seam</i> 468</p> <p data-bbox="824 1562 932 1591">5-14 469</p> <p data-bbox="824 1608 1117 1638"><i>13-8 Overcast Stitch</i> 507</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Identify steps of hem preparation: appropriate length and width, reduce bulk, ease, pressing 	<p>Student Edition: 537-542 <i>22-1 Pinning Hems</i> 537 <i>22-2 Marking Hem Width</i> 538 <i>22-3 Easing in Hem Fullness</i> 538 <i>22-4 Tapering Seam Allowance</i> 538</p>
<ul style="list-style-type: none"> Identify types of hems: machine blind hem, double fold hem, rolled hem, double needle, or hand hemming stitches 	<p>Student Edition: 537-542 <i>22-2 Marking Hem Width</i> 538 <i>22-3 Easing in Hem Fullness</i> 538 <i>22-4 Tapering Seam Allowance</i> 538 <i>22-5 Machine Zigzag Hem Finish</i> 538 <i>22-6 Seam Tape Hem Finish</i> 539 <i>22-7 Pinked Hem Finish</i> 539 <i>22-8 Hemmed Finish</i> 539 <i>22-9 Built-in Blindstitch</i> 540 <i>22-10 Attaching Hem with Topstitch</i> 540 <i>22-11 Fusing a Hem</i> 540 <i>22-12 Slip-Stitching Hand-Rolled Hem</i> 540 <i>22-13 Trimming Hem Allowance</i> 542 <i>22-14 Pressing Hem Allowance</i> 542 <i>22-15 Stitching Again</i> 542 <i>22-16 Slip-Stitching Faced Hem</i> 542 <i>22-17 Clipped and Trimmed Seam</i> 542 <i>22-18 Edgestitching Hem with Pleat</i> 542 <i>Serging Techniques</i> 539, 541</p>
<p><u>20.0113-1010</u> Use commercially prepared directions/guide sheets throughout the project construction.</p>	<p>Student Edition: 481-482 7-3 483</p>
<p><u>20.0113.1011</u> Construction button and buttonhole closures.</p>	
<ul style="list-style-type: none"> Determine correct size of buttonhole. 	<p>Student Edition: 533</p>

STANDARDS	PAGE REFERENCES
<ul style="list-style-type: none"> Appropriately mark placement and stitch buttonholes. 	<p>Student Edition: 532-533 <i>20-8 Horizontal Buttonholes</i> 532 <i>20-9 Vertical Buttonholes</i> 532 <i>20-10 Lines to Mark for Buttonholes</i> 533 <i>20-11 Placing Foot over Buttonhole Mark</i> 533</p>
<ul style="list-style-type: none"> Appropriately mark and attach buttons. 	<p>Student Edition: 533-534 <i>20-13 Marking Button Location</i> 533 <i>20-14 Attaching Sew-Through Button</i> 534 <i>20-15 Making a Shank</i> 534 <i>20-16 Attaching a Shank Button</i> 534 <i>Sewing Tip</i> 534</p>