

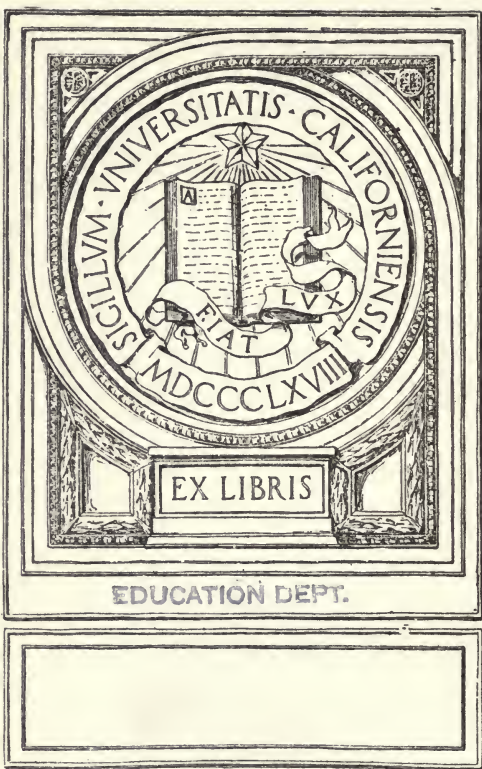
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SEWING HANDICRAFT FOR GIRLS

MC GLAUFILIN



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SEWING

HANDICRAFT FOR GIRLS

A GRADED COURSE FOR CITY AND
RURAL SCHOOLS

Prepared by

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EXPLANATORY NOTE

The exercises in this five-year course are based upon an estimated time of one hour per week in the first two years, and one and one-half hours in the last three, the school year consisting of thirty-eight weeks.

Every exercise in handicraft should train the judgment, the eye or the memory and tend to develop skill, patience, accuracy, perseverance, dexterity or artistic appreciation.

Experience has taught that the bringing of materials for the use of sewing classes from the various homes of the rich and the poor, the thrifty and the shiftless, the clean and the untidy has resulted unsatisfactorily. The success of any sewing course depends largely upon the use of proper and uniform materials. In most cities all materials, with the exception of those used for the full-sized garments, will be furnished by the board of education. School boards or teachers, so desiring, can obtain complete sets of materials for this course from the author. (See advertisement at the end of the book.)

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CHAPTER I.

SUGGESTIONS TO TEACHERS.

The teacher's preparation for the lesson consists in doing each exercise before presenting the lesson to the class. It will take some time to do so, but it will save hours of time and much worry in the end, and the teacher will thus discover how best to present the difficult points of the lesson. A well finished piece gives to the child a complete mental picture of what she is undertaking, and acts as an inspiration; she will work quicker, easier, and better because of it. This impulse and a clear demonstration of the method of doing, will enable her to work far more independently of the teacher than would otherwise be possible, and will give more satisfactory results. Consider the year's work as a connected whole, not as detached lessons.

What are designated as "electives" in this book are designed to meet the needs of classes or individuals doing the work a second time or of teachers who find the regular work too difficult.

Large classes can be handled with less wasted energy by dividing the class into groups that are doing the same work. This saves endless repetition and enables the teacher to give better general supervision. This is the most vulnerable point in class work. A teacher may work laboriously and still waste her own and the children's time by too close an adherence to the individual method of instruction. Those children whose turn comes toward the end of the line will have lost much of the value of the lesson. Children require constant supervision. It is not teaching to examine the work when finished and order it ripped out. The fault is then with the teacher and not with the child. Each successive step should be inspected and corrected before the next one is taken. I would go still farther and have every pupil, even in the advanced grades, submit a sample of her work on every stitch to be used in each exercise. Children are always eager to begin a new piece, and if required to practice until the result is satisfactory will very soon do good work. You then have this to refer to and can hold them to their best.

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There is absolutely no value in poor, careless, puttering work. Unless the child has a high ideal and strives to reach it, the time of the lesson is wasted. Encourage self-criticism. Work should be done to one's own satisfaction whether it is to be seen by others or not.

Do not allow pupils to take their work home unless it is some required practice work. It is not the object to cover a certain amount of ground, but to inculcate high standards of excellence and some technical skill. They cannot accomplish this by themselves. I would prefer that classes do not complete the entire course rather than have good work sacrificed to quantity. There is a difference between careful, painstaking effort, and the puttering away of valuable time.

Avoid delay in distributing supplies.

Be sure that every member of the class understands clearly the object of the lesson.

Do not encourage waste by a too liberal supply of material.

Too much stress cannot be laid upon the careful preparation of the cloth to be used. Trim all edges neatly before hemming, facing, gathering, etc. *Do not allow children to sew without basting.* The time required for careful basting is well spent.

It is not expected that the various pupils of the class will advance with the same degree of proficiency. Some will require a much longer time on an exercise than others. As it is greatly to the advantage of the class in the end, and saves time and tiresome repetition to give each new exercise or stitch as a class lesson, the average pupils should regulate the time for taking up new work. A teacher of resources will find ways and means of bringing up the work of slow pupils, and profitable "busy work" for those who work more rapidly. For the former, a little extra time each day—not as a punishment, but as an opportunity to catch up—would be all that is necessary. For the latter, there is a great variety of interesting, useful work.

It is a pedagogic truism that every teacher, consciously or unconsciously, imparts to her class her own inclinations. An enthusiastic class indicates an ardent interest on the part of the teacher, and a distaste for work and a lack of zeal on the part of the pupils are

SUGGESTIONS TO TEACHERS

equally indicative of the teacher's attitude. Bear in mind that an unprepared teacher or a poorly presented lesson can make almost any exercise difficult and distasteful to the class. Do not blame pupils for poor work for which you are yourself responsible.

GENERAL DIRECTIONS FOR PUPILS OF SEWING CLASSES.

1. Be sure that the hands are clean.
2. Always sit erect—well back in the seat—with the light coming over the left shoulder, both feet upon the floor, because the body will not become as tired, the hand will not shade the work and it is easier to see the stitches. Do not fasten the work to the knee, because a stooping position easily becomes a habit.
3. Place the thimble upon the second finger of the right hand. Either the side or end of the thimble can be used. Never sew without one.
4. Measure the thread either from shoulder to shoulder or from the end of the finger to the elbow. A long thread becomes soiled and worn before being used up and is more liable to knot.
5. Wind the thread once around the forefinger and break from the spool, because the broken thread twists more easily to a point than when cut. Cut the thread from the work when finished to avoid drawing the stitches or breaking at the wrong place.
6. Thread the needle from the end that hangs from the spool. In this way you are working with the twist of the thread and there is less danger of knotting and kinking.
7. Do not wet the thread in the mouth. Roll the end of the thread between the thumb and forefinger and place through the eye of the needle.
8. To tie a knot wind the thread around the forefinger once and a little over, and twist by rubbing the finger down the side of the thumb. With the nail of the second finger bring the knot thus formed to the end of the thread.

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9. Hold the unfinished work in the left hand.
10. Do not bite the threads.
11. Trim the selvedge, as it is hard to sew through and draws up when washed.
12. The knot is always buried except in the basting which is to be removed.

DRILLS FOR BEGINNERS.

DRILL 1. Threading the needle with cotton. Needle No. 8; colored thread.

- a. Prepare the cotton by twisting between thumb and forefinger.
- b. Place the thread in the eye of the needle.
- c. Draw the thread through with the right hand.

DRILL 2. Making the knot.

- a. Hold the needle in the right hand and the end of the thread in the left.
- b. Wind the thread around the forefinger once and a little over, and twist the threads together by rubbing the finger down the side of the thumb. Do not accept careless knots.

DRILL 3. Use of the thimble.

- a. Push the needle with the thimble.
 - b. Push the needle back with the finger of the left hand.
- Never allow a pupil to sew without a thimble.*

DRILL 4. Threading the yarn needle.

- a. Prepare the yarn by loosening the end with the needle.
- b. Place the yarn over the point of the needle and draw into a smooth loop.
- c. Draw the needle out and thread into the loop.

Needles No. 10 will carry	thread No. 100	90	80	
Needles No. 9 will carry	thread No. 90	80	70	60
Needles No. 8 will carry	thread No. 70	60	50	40
Needles No. 7 will carry	thread No. 50	40	30	20
Needles No. 6 will carry	thread No. 20	10		
Needles No. 5 will carry	Linen thread—Luster cotton.			

CHAPTER II.
COURSE OF INSTRUCTION.

FIRST YEAR—THIRD GRADE.

EQUIPMENT.

Sewing box or Envelope Case.
Pin cushion—20 pins.
Thimble.
Needles.
Scissors.
Thread cards.
Practice Piece—Unbleached muslin, 9"x6".

ORDER OF EXERCISES.

Prepare Thread Cards—Cardboard 4"x4", designed and cut for four kinds of thread.

Exercise No. 1—Basting Design.

Exercise No. 2—Running Design No. 1.

Exercise No. 3—Overhanding on Practice Piece.

Exercise No. 4—Pincushion—Cross stitch—Christmas Piece.†

Exercise No. 5—Running Design—No. 2.

Exercise No. 6—Overhanding—Running Designs 1 and 2 together.

Exercise No. 7—Running Design No. 3.*

Exercise No. 8—Hemming a Towel.‡

Exercise No. 9—Running Design No. 4.*

Exercise No. 10—Overhanding—Running Designs 3 and 4 together. Overhanding Nos. 1 and 2 to 3 and 4.*

† * ‡ See Electives, page 17.

SEWING

NO. 4.



NO. 1.



NO. 2.



NO. 3.



CHILDREN IN NATIVE COSTUME.
SUGGESTIVE DESIGNS IN OUTLINE FOR THE RUNNING STITCH

DETAILED DESCRIPTION OF EXERCISES:

Teach: One inch, one-half inch, one-fourth inch.

Practice: "Drills for Beginners," page 10.

EXERCISE NO. 1 — BASTING.

Materials: Unbleached muslin 5" x 8" stamped with the three basting stitches, No. 1, page 67; colored thread No. 50; needle No. 6.

Make pupils perfectly familiar with the *name* and *use* of this stitch. See description of "Stitches Used in Plain Sewing," page 66.

Beginning at the right hand follow the lines of the design with the thread, placing the knots over the dots on the right hand side and fastening over the dots at the left. Under each stamped row of stitches put in one, two, three or more rows, depending upon the rapidity with which each individual works. This will help to keep the class uniform.

EXERCISE NO. 2 — RUNNING.

Materials: Stamped running design No. 1, page 12. Unbleached muslin 6" x 8"; colored thread No. 50; needle No. 6.

Make pupils perfectly familiar with the *name* and *use* of this stitch. See description of "Stitches Used in Plain Sewing," page 66.

The object of this model is to give the pupils practice in the running stitch. These designs are more interesting than practicing on plain cloth, so if the work is not satisfactory, cut the knot, pull out the thread, and try again. Give special attention to the knots and the fastening of the threads and the general neatness of the work. Place the knot on the wrong side and follow the lines of the design with the running stitch.

EXERCISE NO. 3 — OVERHANDING.

Materials: Practice piece; colored thread No. 50; needle No. 6.

Teach the Overhanding Stitch on the Practice Piece. See description of "Stitches Used in Plain Sewing," page 66. Change the

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color of the thread once or twice and teach the joining of the thread. Baste two folded edges together and insist upon neat, careful work.

EXERCISE NO. 4 — CROSS STITCH PIN CUSHION — Christmas Piece.†

Materials: Unbleached muslin $4\frac{3}{4}'' \times 8''$; luster cotton; crewel needle No. 6; thread No. 50; needle No. 6; cotton poplin $4\frac{1}{2}'' \times 8\frac{1}{2}''$ stamped with cross-stitch design (or a square of Penelope canvas $4'' \times 4''$ may be basted on and the design worked out on this and the canvas threads pulled out). See illustration on page 36.

Make the cushion of the muslin and stuff rather hard with fine sawdust.

Work the cross-stitch design.

Turn to the wrong side one-fourth inch all the way around, and baste.

Fold through the center the short way, wrong sides together, baste and overhand the sides. Draw the cover over the cushion and overhand the remaining side. Finish the edge with a cross-stitch, chain-stitch, or twisted cord.

EXERCISE NO. 5 — RUNNING.

Materials: Running design No. 2, page 12, $7'' \times 8''$; colored thread No. 50; needle No. 6.

Follow the lines of the design with the running stitch.

EXERCISE NO. 6 — OVERHANDING.

Materials: White thread No. 50; needle No. 6.

Running designs No. 1 and No. 2 are to be overhanded together.

Turn a quarter-inch fold on the long side of both pieces. Base the folded edges together and overhand.

EXERCISE NO. 7 — RUNNING.*

Materials: Running design No. 3, page 12, $6'' \times 8''$; colored thread No. 50; needle No. 6.

Follow the lines of the design with the running stitch.

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EXERCISE NO. 8 — HEMMING — PAPER FOLDING FOR A HEM.

Materials: Paper $4\frac{1}{2}''$ x $7''$.

Fold the long way of the paper. First fold of the hem, one-fourth of an inch. Turn half an inch hem on one side and an inch hem on the other. Have each child cut from a card a gauge for measuring the hems and insist that the hems be turned evenly.

Teach the hemming stitch on the Practice Piece with colored thread. Trim the edge neatly, fold the hem accurately and baste in place. Bad habits, that are hard to correct later, can so easily be formed in making this stitch that I wish to caution teachers in regard to the position of the needle in relation to the hem, the amount of cloth taken on the needle and the tendency toward making the blind stitch or the damask hem instead of the plain hemming stitch.

HEMMING A TOWEL.‡

Materials: Crash, $9''$ woof, $6''$ warp; white thread No. 50; needle No. 6; tape $4\frac{1}{2}$ inches.

Turn one-fourth inch fold on each side and across the bottom and baste. Turn the second fold one-fourth of an inch on the sides and baste. Hem the sides. Turn an inch hem at the bottom, baste and hem, giving special attention to the corners where the bottom hem is turned over the side hems. Hem the top with a quarter-inch hem if there is no selvedge. Sew a loop in the middle of the top on the selvedge edge as follows: Turn in one-fourth of an inch at both ends of the tape. Place the ends of the tape side by side and down one-fourth of an inch from the edge of the towel. Hem around the ends of the tape and back-stitch across the tape just at the edge of the towel.

EXERCISE NO. 9 — RUNNING.*

Materials: Running design No. 4, page 12, $6''$ x $8''$; colored thread No. 50; needle No. 6.

Follow the lines of the design with the running stitch.

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EXERCISE NO. 10—OVERHANDING.*

Materials: Quilt lining, unbleached muslin 12" x 16"; white thread No. 50; needle No. 6.



DOLL'S QUILT

Running designs No. 3 and No. 4 are to be overhanded together. Turn a quarter-inch fold on the long sides of both pieces. Baste the folded edges together and overhand. Running designs Nos. 1 and 2 are to be overhanded to 3 and 4. Turn a quarter-inch fold at the

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top of one piece and the bottom of the other, baste the folded edges together and overhand. Baste the lining to the quilt, turn in the edges and overhand. Tack.

ELECTIVES.

†Instead of the pincushion a Child's Picture Book may be substituted.

*Running designs No. 3 and No. 4 may be omitted and the Child's Picture Book substituted. If this is done make a doll's pillow of running designs No. 1 and No. 2 by turning in one-fourth inch all the way around both pieces and overhanding them together. Stuff with cotton or with scraps of cloth cut to finger-nail size.

‡Instead of the small towel encourage children to ask their mothers for a dish towel which they can bring from home to hem. Some housekeeper of the neighborhood may be glad to have her dish-towels hemmed for her by the class.

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A CHILD'S PICTURE BOOK.

Materials: Pink, blue or yellow paper cambric 27 inches; coarse thread; coarse needle; bright, pretty pictures which the children have cut from papers, magazines, cards, etc.; paste.



CHILD'S PICTURE BOOK

Fold the cloth through the center with the warp and cut on the fold. Fold both strips into three equal pieces with the woof, and cut. Fold each piece through the center parallel to the selvedge. Place two pieces together and pin at the fold, and "pink" through the four

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thicknesses, around the edges with a "pinking iron." Do the same with the other pieces. When finished place them all together and stitch at the fold as follows:

1. Mark three holes on the fold with the needle, one in the middle and one two inches above it, and another two inches below it.
2. Tie a large knot two inches from the end of the thread.
3. Insert the needle at the lowest hole, from the inside, and draw it through leaving two inches of the thread to tie.
4. Pass over the middle hole and down through the upper one, out through the middle hole on one side of the long thread, and back through the same hole on the other side of the thread, and tie the two ends of the thread together.

Paste a pretty card or large picture on the outside for the cover. Page the book with neat figures and write the name of the child for whom the book is designed on the inside of the cover. Arrange and paste in the pictures neatly.

CHAPTER III.

COURSE OF INSTRUCTION.

SECOND YEAR — FOURTH GRADE.

EQUIPMENT.

Sewing box or envelope case.

Pin cushion — 20 pins.

Thimble.

Needles.

Scissors.

Thread cards.

Practice Piece — Unbleached muslin 9" x 12".

ORDER OF EXERCISES.

Prepare Thread Cards — Cardboard 4" x 4", designed and cut for four kinds of thread.

Exercise No. 11 — Seam Sampler — Seam A — Combination Stitch.

Exercise No. 12 — Emery Balls.*

Exercise No. 13 — Seam Sampler — Seam B — Stitching.

Exercise No. 14 — A Bag — Christmas Piece.†

Exercise No. 15 — Seam Sampler — Seam C — Half-Back Stitching.

Exercise No. 16 — A Doll's Sofa Pillow.

Exercise No. 17 — Seam Sampler — Seam D — French Seam.

Exercise No. 18 — A Pair of Doll's Pillow Cases.§

Exercise No. 19 — Seam Sampler — Seam E — French Fell.

Exercise No. 20 — Textile Fibers and Fabrics — Silk.

* † § See Electives, page 26.

DETAILED DESCRIPTION OF EXERCISES.

Review: One inch, one-half inch, one-fourth inch.

Teach: One-eighth inch, three-eighths inch, seven-eighths inch.

SEAM SAMPLER.

Materials: Plain percale 10" warp, 12" woof; white thread No. 60; needle No. 6.

Five exercises of the Second Year Sewing will consist of seam work on the Seam Sampler. *Each stitch will be first taught on the Practice Piece.* Make pupils perfectly familiar with the names and uses of the different stitches as they are taught. As the year's work progresses compare the different seams and teach when, where and why these various seams are used in garment making. See description of "Seams," page 90. That the pupils may not lose interest in their sewing the seam work is alternated with miscellaneous exercises.

Fold the percale with the warp into three equal pieces. Cut off one piece. Have each pupil label her large piece with her name. Collect and put them away until ready for Seam B. Do not leave them in the boxes or they will be lost, or soiled with too much handling.

EXERCISE NO. 11 — SEAM A — COMBINATION STITCH.

See description of "Seam Sampler" given above.

Materials: First section of Seam Sampler.

Fold with the warp through the center, and cut on the fold. Baste these two edges together one-fourth of an inch from the edge. Sew with the Combination Stitch three-eighths of an inch from the edge.

EXERCISE NO. 12 — EMERY BALLS.*

Materials: Unbleached muslin, $6\frac{1}{2}''$ x $6\frac{1}{2}''$; red cashmere $6\frac{1}{2}''$ x $6\frac{1}{2}''$ (this amount provides for four); thread, yellow, white and red; emery powder; needles No. 6 and No. 3; green luster cotton.

To cut the pattern of the strawberry emery ball: Draw a circle three inches in radius, and cut on the line.

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Cut a circle from the unbleached muslin for the lining and one a quarter of an inch larger from the cashmere for the outside; cut both into quarters.

To make the case: Fold the two edges of the muslin together and sew in a seam with the combination stitch, rounding the point to give



THE COMPLETED SEAM SAMPLER ILLUSTRATING EXERCISES
NOS. 11, 13, 15, 17, AND 19.

the strawberry shape. Turn in a good seam at the top and gather. Fill with the powdered emery and fasten the gathering thread by overhanding over the top.

Before sewing up the outside put in the stitches, with yellow thread, to represent the seeds of the strawberry as follows: Hold the

wrong side of the cloth toward you and put in a row of tiny stitches half an inch apart. One-fourth of an inch above these put in another row with the stitches midway between those of the last row, and so continue. If desired these may be omitted and the seeds represented by French knots when the strawberry is finished.

Seam up the outside, slip it over the case, arranging the seams on opposite sides to avoid the possibility of powder sifting through. Overhand the top and cover with the green luster cotton to represent the calyx, leaving a loop for the stem.

EXERCISE NO. 13 — SEAM B — STITCHING.

Materials: Second section of Seam Sampler.

Fold with the warp through the center and cut on the fold. Baste these two edges together one-fourth of an inch from the edge. Stitch three-eighths of an inch from the edge.

EXERCISE NO. 14 — CHRISTMAS PIECE — A HEART SHAPED BAG.†

Materials: Silkoline 14" x 18"; tape, 2 yards.

Turn and baste a one-fourth-inch fold all the way around the cloth. Crease and baste an inch hem at both ends. With right sides together fold the bag with the two hems together to find the exact bottom of the bag and place pins on the seam to mark this. Instead of sewing up the seams as in making a straight bag, pin the bottom of the bag *at the seam* to the edge of the hem, and fasten very securely. Then overhand the edges of the sides together in the two folds. Put in two lines of running stitches for the two tape casings; run in the two tapes, 1 yard each, bringing them out at opposite sides for the double draw strings.

EXERCISE NO. 15 — HALF-BACK STITCHING.

Materials: First and second sections of the Seam Sampler.

Baste the two sections together one-fourth of an inch from the edge. Sew with the half-back stitch three-eighths of an inch from the edge.

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BAGS WITH ORIGINAL DESIGNS IN CROSS STITCH MADE BY FOURTH GRADE CHILDREN

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EXERCISE NO. 16 — A DOLL'S SOFA PILLOW.

Materials: Cotton poplin 6" x 11½"; Kerr's twist, B; crewel needle; thread No. 60; needle No. 6.

Work the design in the running stitch with the twist. Turn a quarter-inch all the way around to the wrong side and baste. Fold right sides together the short way through the center and baste. Overhand the edges, leaving a small opening for filling with scraps of cloth cut into bits, finger-nail size, or the cotton of milkweed pods. Overhand the opening.

EXERCISE NO. 17 — FRENCH SEAM.

Materials: Third section of the Seam Sampler.

Fold with the warp through the center and cut on the fold. Follow the directions for the French Seam.

EXERCISE NO. 18 — A PAIR OF DOLL'S PILLOW CASES. §

Materials: Two pieces bleached muslin 7½" warp, 8½" woof; white thread No. 60; needle No. 6.

In a pillow case the warp threads should run lengthwise of the pillow. Crease a quarter-inch fold across one end and on both sides. Fold with the warp through the center so that the seam just turned comes on the inside, baste the folded edges together on the right side. Overhand on the right side, using no knot, but sewing over the end of the thread. Turn a three-quarter inch hem, baste and hem. Trim the seam and overcast.

EXERCISE NO. 19 — FRENCH FELL.

Materials: Seam Sampler.

Sew Section Three of the Seam Sampler to the others with the French Fell. Follow directions for the French Fell.

EXERCISE NO. 20 — TEXTILE FIBERS AND FABRICS — SILK.

Under the heading "Textile Fibers and Fabrics," page 96, will be found subject matter which can be used in correlation with the geog-

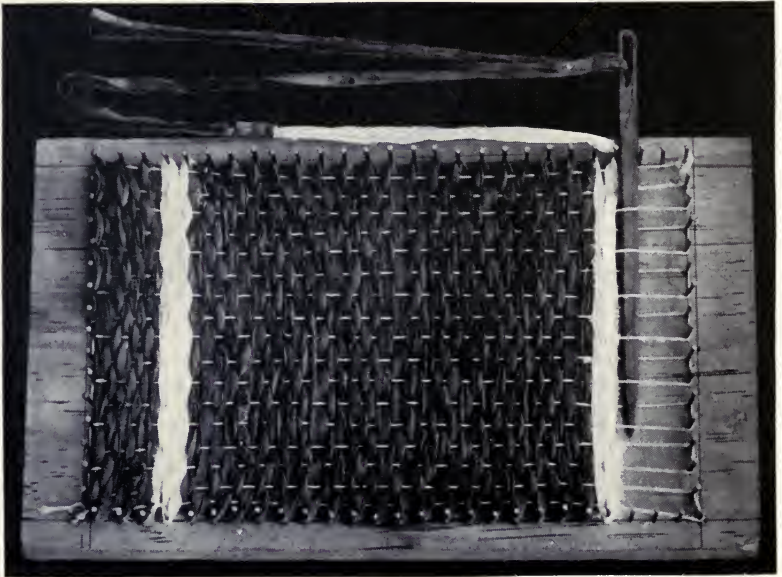
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raphy, language and history work. The fourth grade subject is silk. Secure if possible the silk cocoon and make a collection of silk fabrics. Language papers on the subject can be illustrated with pictures cut from papers and magazines.

ELECTIVES.

A DOLL'S RAG RUG.*

This May Be Used Instead of the Emery Ball.



Materials: Carpet warp, 6 yards; large wooden needle; a loom.

To make the loom: Take a smooth inch board 7"x12"; draw lines across the board one inch from both ends; draw lines down both sides one-half inch from the edge, connecting the end lines. Drive

in brads or wire nails with small heads three-eighths of an inch apart all the way around the oblong formed by the lines.

To weave the rug: Each girl will cut or tear her own carpet rags from discarded garments, etc., brought from home. *These must be fresh and clean.* Cut into strips from one-half to one inch wide that will thread into the needle. To sew the rags together lap one over the other about an inch, and fold the long way through the center once; back-stitch several times through the four thicknesses, making each strip about two yards long. Wind the warp on the nails as tight as possible; weave the rags over and under the warp threads. Stripes across the ends will add to the children's interest. Teach warp, woof and selvage.

†A bag ornamented with the cross-stitch may be made instead of the silkoline bag.

§One pillow-case may be omitted and a pillow for the other case made instead. This will be stuffed with crumpled bits of tissue paper.

CHAPTER IV.
COURSE OF INSTRUCTION.

THIRD YEAR—FIFTH GRADE.

EQUIPMENT.

Sewing box or envelope case.
Pin cushion—30 pins.
Thimble.
Needles.
Scissors.
Thread cards.
Practice Piece—Unbleached muslin 9"x12".

ORDER OF EXERCISES.

Prepare Thread Cards—Cardboard 4"x4" designed and cut for four kinds of thread.

Exercise No. 21—Patching Sampler—Hemmed Patch.

Exercise No. 22—A Doll's Kimona.

Exercise No. 23—Patching Sampler—Overhand Patch.

Exercise No. 24—Basketry—Christmas Piece.*

Exercise No. 25—A Garment Brought from Home to be Repaired.

Exercise No. 26—Mitered Corner.‡

Exercise No. 27—Napkin—Damask Hem.

Exercise No. 28—A Pair of Sleeve Protectors.†

Exercise No. 29—A Pin Cushion.

Exercise No. 30—Textile Fibers and Fabrics—Cotton.

* † ‡ See Electives, page 37.

DETAILED DESCRIPTION OF EXERCISES.

Review the divisions of the inch.

PATCHING SAMPLER.

Materials: Gingham 8" warp, 13" woof; white thread No. 70; needle No. 7.

It is desirable that each girl cut the two patches and the two pieces to be patched from the same piece of cloth that there may be no difficulty in matching the pattern when patching or when later sewing the two patched pieces together.

Fold the piece of gingham, eight inches by thirteen inches, with the warp into three sections, two of them eight inches warp by five inches woof, and the third eight inches warp by three inches woof. Fold the three-inch piece across the warp in the center for the two patches. Cut on the creases. Pin one patch to one of the large pieces, label with the girl's name and put it away for Exercise No. 23.

EXERCISE NO. 21—HEMMED PATCH.

Materials: First section of Patching Sampler.

The hemmed patch is the strongest and the one most commonly used for repairing garments. The patch will not be noticeable if the pattern is skilfully matched. When matching stripes or plaids always turn on the line where the color changes, never through the middle of a stripe. Ten minutes spent on a paper pattern will prevent the mistakes beginners usually make in this exercise.

Trim the patch and crease a quarter-inch fold on the four sides. In the large piece cut a hole in the center, found by folding, and place the patch over this. Baste around it, matching pattern carefully.

Do not allow pupils to go any farther until the patch is basted on exactly right. Turn to the right side and cut out the part supposed to be worn by the following successive steps:

S E W I N G

1. Measure one-half inch (or as near it as the pattern will permit) from the edge of the patch, using pins for marking the line where it is to be cut.
2. Cut out the center, leaving about one-half inch extending over the patch.
3. Clip the corners diagonally the *exact* width of the fold to be turned in. Take *great care* and *do not cut in too far*, as this will spoil the patch.
4. Turn in the edge, baste and hem.
5. Hem the patch on the wrong side.

EXERCISE NO. 22—A DOLL'S KIMONA.

Materials: Outing flannel 10½" x 14": luster cotton; white thread; needle No. 7; crewel needle; pattern.

N. B. The kimona may be cut in one piece with under-arm seams or in two pieces with an additional seam in the back.

The following are the successive steps for making the kimona:

1. Pin the pattern to the cloth and cut around it.
2. Baste the seams; backstitch the seams one-fourth inch from the edge; clip the seams three times at the turn under the arm.
3. Open the seams and baste flat to the cloth.
4. Finish the seams with a fine herringbone stitch.
5. Turn in to the wrong side one-eighth inch around the kimona; baste.
6. Practice the blanket stitch over a folded edge before doing it on the edge of the kimona with the luster cotton.

An alternating long and short stitch makes an attractive edge, or the stitches may be placed in groups of three or five.

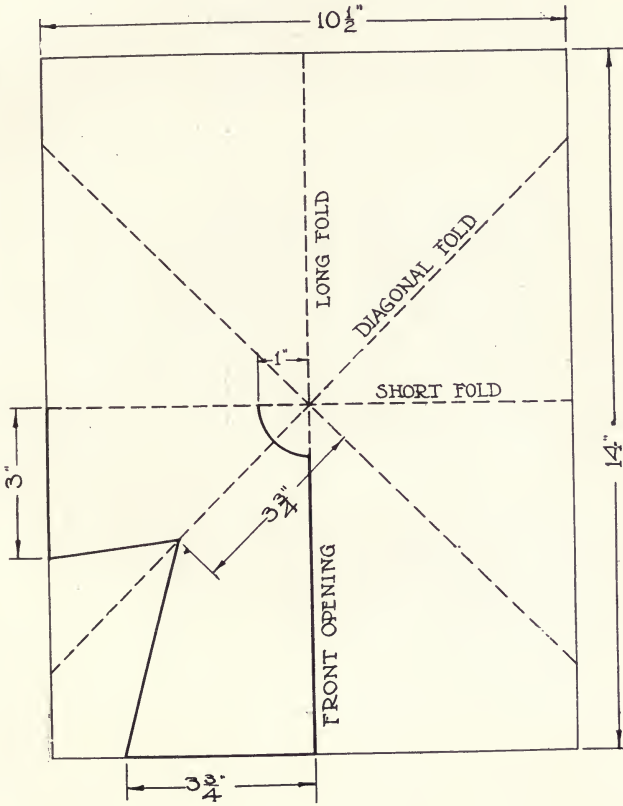
EXERCISE NO. 23—OVERHAND PATCH.

Materials: Second section of the Patching Sampler.

The overhand patch is used on very thin material, such as lawn, dimity or organdy, where strength is not required and where the two thicknesses of cloth around the edge of the hemmed patch would be

C O U R S E O F I N S T R U C T I O N

too noticeable. The pattern should be as carefully matched as in the hemmed patch and equal care given to the corners. A paper pattern will assist beginners.



PATTERN OF DOLL'S KIMONA

Fold the large piece of gingham with the four corners together and clip off the point from the center. The following are the successive steps for making the overhand patch:

S E W I N G

1. Measure on each side of the center, with the warp, one and one-fourth inches and with the woof three-fourths of an inch. Mark with pins.
2. Cut out the oblong at these points (or as near as the pattern permits, observing also the pattern of the patch to be used).
3. Clip the corners diagonally the *exact* width of the fold to be turned in.
4. Turn in the fold on the four sides of the hole.
5. Crease the folds on the four sides of the patch so that it will fit exactly into the hole, matching patterns.
6. Beginning near the middle of one side overhand the patch in, matching as you overhand. Do not baste.

The two patched pieces are to be overhanded together. Turn a quarter-inch fold on each with the warp, matching the pattern, baste together and overhand.

Teach the Overcasting on the Practice Piece and overcast all raw edges on the Patching Sampler, with a stitch one-eighth of an inch deep and one-fourth of an inch apart.

EXERCISE NO. 24—BASKETRY—CHRISTMAS PIECE.*

This subject has such limitless possibilities and its success or failure rests so entirely with the teacher that it will be necessary for each teacher to prepare herself to teach it and decide upon the style, size and general character of the design of the baskets to be made by her class, allowing the pupils as far as possible to work out their individual tastes.

See chapter on "Basketry," page 108.

EXERCISE NO. 25—A GARMENT BROUGHT FROM HOME TO BE MENDED.

Ask every pupil to bring some article from home, in preference, a garment to be mended. There is no home that cannot furnish a

garment that needs repairing. This is a practical application of Exercises 21 or 23 and is a valuable experience for the children.

EXERCISE NO. 26—MITERED CORNER.‡

Materials: Paper.

Teach the mitered corner on paper only. Have it done over and over until every pupil understands how it is done, and can do it alone,



THE MITERED CORNER.

rapidly and perfectly. Ask pupils to bring paper from home, as almost any kind will do for this practice work. Have it made in hems of several widths. See description of "Miscellaneous" exercises, page 82.

S E W I N G

EXERCISE NO. 27—A NAPKIN—DAMASK HEM.

Materials: Damask $8\frac{1}{2}'' \times 8\frac{1}{2}''$; white thread No. 60; needle No. 7.

Trim the napkin square. Napkins are usually hemmed with a very narrow hem, luncheon napkins sometimes with wide ones.

The Damask Hem: Fold the hem the desired width (on this small napkin one-half inch) and then turn the hem back flat to the cloth and crease. The edge of the hem and the crease thus formed are overhanded together with fine even stitches. When laundered this irons perfectly smooth. This method of hemming is used only on cloth too heavy to flat hem nicely.

EXERCISE NO. 28—A PAIR OF SLEEVE PROTECTORS.†

Materials: Cotton twill $8\frac{1}{2}'' \times 11''$; tape 36"; ribbon elastic 4"; white thread No. 70; needle No. 7.

To cut the pattern of a sleeve protector: Cut an oblong eight inches by ten and one-half inches. Fold through the center the long way. Mark the top of the folded edge A, the bottom B, the upper right hand corner C and the lower D. Measure down on the folded edge from A four inches and mark E. Measure down from C four inches and mark F. Measure up from D five inches and mark G. Measure on the line B D three and one-fourth inches from B and mark H. Connect G and H with a straight line. With E as the center and E A as the radius draw a quarter of a circle connecting A and F. Cut on the lines H G, and A F.

Cut the sleeve protectors from the pattern. Beginning at the center of the bottom and holding the wrong side of the cloth next to you, baste the edge of the sleeve protector to the line running through the middle of the tape. Make a tiny pleat in the tape at each corner so that when doubled over it will round the corners smoothly. Join the ends of the tape by folding back both ends and overhanding them together on the wrong side. Hem the tape down on the right side. Before basting the tape down on the wrong side, fasten the elastic in place on one side of the sleeve protector. The elastic is in two

pieces, two inches in length. Place the first piece one inch from the bottom and the second piece three inches above the first. Baste the tape down on the wrong side and hem, leaving the opening for the other end of the elastic, which is fastened in place after the hemming is done. Lay the binding smooth over the elastic and stitch along the edge of the tape, through the elastic, to hold in place.

EXERCISE NO. 29—A PIN CUSHION—COUCHING AND LAZY-DAISY STITCH.

Materials: Cover, poplin, stamped; muslin for cushion; crewel needle; coarse colored thread; embroidery cotton.

Proceed by the following steps:

To make the cushion:

1. Fold through the center the short way and backstitch the side seams; turn in one-fourth inch at the open end and baste.
2. Fill full and hard with fine sawdust; overhand the end.

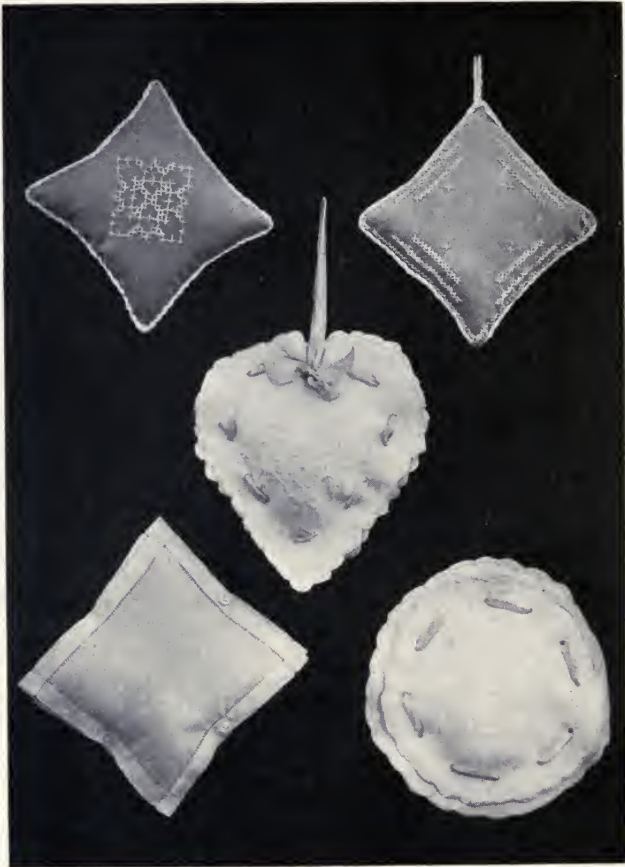
To embroider the cover:

1. Lay the coarse thread along the edge, leaving a half-inch at the end for joining later.
2. Blanket stitch over this thread held loosely to the edge, with the white embroidery cotton, placing the stitches a little less than an eighth of an inch apart, putting the needle in at the top line and out at the bottom line; work from left to right. The beauty of this stitch will depend upon its regularity.
3. Join the coarse thread by overlapping a half inch. Do not cut the ends off blunt but to a point so the place of joining will not show.
4. Cut the scallops out and go around again with the white cotton in the blanket stitch, going into each loop.
5. Work the flowers in blue lazy-daisy stitch with a yellow French-knot center.
6. Pin the cover to the cushion at the corners.

S E W I N G

EXERCISE No. 30—TEXTILE FIBERS AND FABRICS—COTTON.

Under the heading "Textile Fibers and Fabrics," page 96, will be found subject matter which can be used in correlation with the geography, language and history work. The fifth grade subject is



A GROUP OF SMALL PIN CUSHIONS ILLUSTRATING CROSS-STITCH DESIGN, AN EMBROIDERED EDGE, COUCHING AND A HEM-STITCHED COVER

cotton. Many interesting collections can be made that will be instructive for the children.

- a. Cotton fabrics with their names and uses.
- b. Pictures.
- c. Cotton fiber in the various stages of manufacture.
- d. Maps upon which can be located the countries producing cotton and cities noted for the manufacture of cotton cloth.
- e. Compositions on cotton and allied subjects.

ELECTIVES

*The pin cushion or a fancy bag may be substituted for the basketry and one of the other electives chosen for Exercise No. 29.

‡A cover for a pin cushion affords a good application for the mitered corner. This can be made any size, square or oblong. Ornament with fine feather stitching and the star stitch.

†The case for ruler and pencils may be substituted for the sleeve protectors.

A CASE FOR RULER AND PENCILS.

Materials: Creton, three pieces, $3\frac{1}{4}'' \times 22''$, $3\frac{1}{4}'' \times 13''$, $3''\frac{1}{4} \times 10''$; thread; needle No. 7.

The following are the successive steps:

1. Turn in one-fourth inch around the three pieces and baste.
2. Hem one end of the short piece; hem one end of the middle sized piece.
3. Lay the wrong side of the middle sized piece to the wrong side of the long piece, even at the end turned in only, and baste the two pieces together.
4. Make the pocket for the ruler, pencil and eraser the desired size by backstitching.
5. Lay the wrong side of the short piece to the right side of the middle sized piece even at the same end and baste.

S E W I N G

6. Overhand the three pieces together, taking care to fasten securely at the top of the pockets.
7. Fold the flap on the long piece to just meet the top of the long pocket. Hem it down at the end and overhand the sides.
8. The pupils will furnish snaps (2) or buttons for fastening.

A BOOK COVER.

Materials: Grass linen or Holland 15" woof by 10" warp; white thread No. 70; needles Nos. 7 and 5; luster cotton.

The Design: Start several weeks before the class is ready to make it, arouse an interest, and study designs for book covers. Ask pupils to bring from home books having good designs on the covers. Have them tell why they like certain ones and do not favor others. In a word, educate their tastes in this line before expecting them to originate designs. Do not attempt anything elaborate. Many artistic effects can be obtained by interlacing straight lines and these have the advantage of being easily worked. Paper cutting is an excellent medium for experimenting, if a unit is to be repeated or if curves are desired in the outline. For example, fold an oblong, four and one-half by seven inches, through the center both ways, and cut on a slightly curving line from the folded edges to the corner. Quite a variety of simple, graceful outlines can be made by slightly varying these curves, which, with a simple unit repeated around the center or in each corner makes an effective design. Have the finished pattern before starting the book cover. Trace on the cloth by means of the carbon paper. It will be necessary to crease the cover over the book before putting on the design, so that it may be placed just right.

To Make the Book Cover: Work the design with the outline stitch before sewing up the seams. Overcast the raw edges at the top and bottom of the cover and hem with a quarter-inch hem the two ends that fold into the book. The raw-edged hem, finished with the herringbone stitch, could be used in place of the plain hem, if desired. Turn in the top and bottom of the cover so that the book will slip in

easily. Overhand that part which folds into the book to the outside, at top and bottom, thus forming the pockets into which the covers of the book slip. Do the overhanding on the wrong side and then turn it to the right side.

A BOOK BAG.

Materials: Galatea or khaki 15" woof, 13" warp; two strips for handles, 13" warp by 3" woof; thread No. 40; needle No. 7.

The decoration of the bag should be done before sewing up the ends. Very artistic effects can be obtained in the applique. See directions for the design of the book cover, page 38.

Cut a three-inch strip from the length of the piece for the end pieces. Divide this into two pieces seven and one-half by three inches. Find the middle of one end of both end pieces and notch them. Fold the large piece with the warp through the center and notch at both ends of the fold. Turn in a quarter of an inch around the large piece and baste. Turn in a quarter of an inch across the notched end and sides of the end pieces. Place the notch at the end of one side piece to one in the large piece, right sides together, and pin in place. Overhand on the wrong side the two together across the end and up both sides. Put in the other end piece in the same way. Trim the end pieces even with the top of the case. Turn a three-quarter inch hem at the top. Before hemming make the straps for the handles by turning in and overhanding the edges. Insert both ends of one strap under the hem of the right side of the bag, two inches from the middle or four inches apart and the other strap on the left side. Hem, and fasten the handles to the edge of the hem by backstitching.

S E W I N G



A COOKING SET, CONSISTING OF AN APRON (EXERCISE NO. 33), SLEEVE PROTECTORS (EXERCISE NO. 28), AND A ROUND HOLDER AND CASE (EXERCISE NO. 38.)

CHAPTER V.

COURSE OF INSTRUCTION.

FOURTH YEAR—SIXTH GRADE.

EQUIPMENT.

Sewing box or envelope case.
Pin cushion—30 pins.
Thimble.
Needles.
Scissors.
Thread cards.
Practice Piece—Unbleached muslin 9"x12".
Use No. 80 thread for machine work.

ORDER OF EXERCISES.

Prepare Thread Cards—Cardboard 4"x4"—designed and cut for four kinds of thread.

Exercise No. 31—Stocking Darning.

Exercise No. 32—A Machine Practice Piece.

Exercise No. 33—An Apron—Christmas Piece.*

Exercise No. 34—A Lesson in Color.

Exercise No. 35—Buttonholes.

Exercise No. 36—A Trial Piece for the Back of a Petticoat.

Exercise No. 37—A Hemstitched Handkerchief.†

Exercise No. 38—A Round Holder and Case.

Exercise No. 39—A Petticoat or Princess Slip.

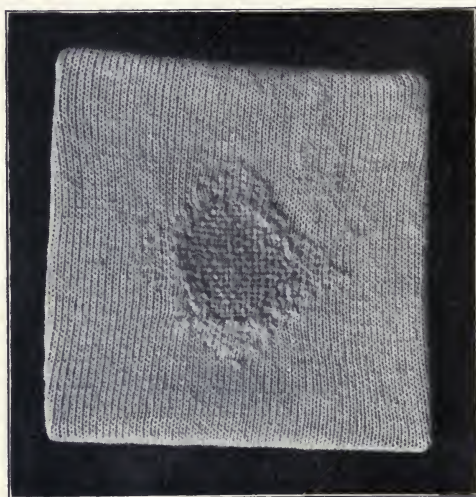
Exercise No. 40—Textile Fibers and Fabrics—Flax.

*† See Electives, page 49.

S E W I N G

DETAILED DESCRIPTION OF EXERCISES.

Teach the yard measure and its divisions.
See note under Exercise No. 35—Buttonholes



STOCKINET DARNING.

EXERCISE NO. 31—STOCKING DARNING.

Materials: Stockinet 4"x4"; cardboard 3"x3"; darning cotton in two colors; darning needle; a pair of worn stockings.

See description of Stocking Darning, page 71.

Pupils will furnish their own cardboard and have it cut and ready for the lesson, also a pair of worn stockings.

The cardboard is a substitute for the darning ball. Do not stretch the cloth too tightly over the card, nor put in a needless number of stitches at the back to hold it on, five or six being sufficient to hold

it temporarily in place. The darning cotton winds from the spool in several strands loosely twisted together. Separate and use two, three or more strands, depending upon the texture of the cloth to be darned. Take care not to split the threads when weaving across them, and also avoid putting the threads so far apart that holes are left between them. In fact, try to have pupils understand that they are supplying a piece of cloth that has been worn away, and that when finished should match as nearly as possible in color and texture the cloth that is being repaired. On the stockinet practice piece, use one color of the thread for the warp and the other for the woof. Stockinet, like stockings, is a knitted, not a woven fabric, and as every stitch is drawn through the one below it, it is very necessary that the loops be caught before they ravel back. Prepare the hole for darning by whipping the edge with fine thread, catching up all the severed loops. Either a round or an oblong hole may be cut in the stockinet, the round hole being three-fourths of an inch across, and the oblong three-fourths of an inch by one inch.

Follow the exercise in stockinet darning, in which the principles of darning have been taught, with the darning of a pair of worn stockings that the pupils have brought from home. Every child in the class must be given this practical and useful experience. If there is difficulty in securing these stockings, members of the class or the teacher can readily supply the deficiency.

EXERCISE No. 32—A MACHINE PRACTICE PIECE.

Materials: Striped calico 1 yard warp, by 6½ inches woof.

Begin machine practice by drawing lines on paper and stitching to these lines without thread in the needle.

The object of this piece is to teach the use of the sewing machine before beginning a garment. Insist that pupils practice at home. At the teacher's discretion they may also do the straight stitching on the machine practice piece at home, a yard or two each day, bringing it for the teacher's inspection daily. There are five problems on this piece:

S E W I N G

(a) Straight Stitching.

Begin one inch from the end of each stripe and stop short of the end one inch. Stitch also between stripes once, twice or as many times as the teacher thinks necessary for perfecting the pupils' stitching.

(b) Tying Threads.

Draw the ends of the thread through to the wrong side, tie and clip.

(c) French Seam. See page 91.

Cut the long piece into three equal pieces across the short way. Sew two pieces together lengthwise with the French seam by the following steps:

1, Baste; 2, Stitch first seam one-eighth of an inch; 3, Trim; 4, Crease in seam and fold; 5, Baste through the four thicknesses; 6, Stitch second seam not to exceed one-fourth of an inch; narrower is better.

(d) French Fell. See page 91.

Join the third piece to the above with the French fell.

(e) Stitching Straight on the Edge of a Hem.

Turn an inch hem at one side, with the seams, baste and stitch just along the edge. Turn a quarter-inch hem on the opposite side, and stitch.

EXERCISE No. 33—AN APRON—THE CHRISTMAS PIECE*

Materials: Pupils will select and furnish their own materials for an apron. This may be of any style or kind, and will afford an excellent opportunity for carrying out their individual tastes. This may necessitate the teaching of the principles of bands which can be done with the practice piece. See description of Bands, page 82.

If the school is provided with a sewing machine and the machine practice piece has been satisfactorily finished the apron may be a machine-made garment. If not, there are many attractive styles of small aprons that can be made by hand.



APRONS—EXERCISE NO. 33.

S E W I N G

EXERCISE No. 34—A LESSON IN COLOR.

This exercise is a correlation between the sewing and the art work of the class and is intended as a foundation for the lessons in home decoration and the study of costume later in the course.

A NOTE BOOK

Make the book by tying together sheets of ruled paper for the text, and sheets of drawing paper for the color charts, etc. The cover is designed and colored as the individual taste dictates, and forms one of the problems of this exercise.

Analysis of color—color chart.

- a. Primary Colors.
- b. Secondary Colors.
- c. Shades—color with gray or black.
- d. Tints—color with white.

Mixing of colors.

- a. How is orange obtained?
How is green obtained?
How is brown obtained?
- b. Mix tints of blue.
Mix tints of green.
Mix tints of orange.
- c. Mix shades of yellow.
Mix shades of brown.
Mix shades of red.

QUESTIONS

1. What are the neutrals in color?
2. What do you understand by harmony in color?
3. What are contrasts in color? Give an example in nature.
4. What is it to be color blind? What is it to have color sense?
5. What do you mean when you say a person has a refined taste in color?
6. What is your favorite color? Why? Would you like a whole dress of this color?
7. Can you imagine the world without color, no blue in the sky or water; no green in the trees or grass; no brown in the soil; no bright flowers, no sunsets, just white or black or gray?
8. How did the early tribes of Indians secure color for their blankets?
9. Where do we get our dye stuffs? Of what are they made?

C O U R S E O F I N S T R U C T I O N

10. Compare mineral and vegetable dyes.
 11. Analyze the greens in cabbages, melons, peppers, and cucumbers.
 12. What have you noticed in nature's blend of color in an apple?
 13. What would you think if you saw a red apple with a blue stripe around it?
 14. Would you rather wear a blue sash with a red dress or go without a sash?
- If you have no hair ribbon the color of your dress what color can you wear best with a blue dress? A brown dress? A green dress? A pink dress?
15. What is the difference between a blue-green and a green blue? Do blue-greens and yellow-greens combine well?
 16. What nationalities love bright colors? Can you account for this?
 17. What do you know of the colors used in the rugs made in the far eastern countries?
 18. Have you ever noticed the variety of colors in a bouquet of nasturtiums, ranging throughout all the shades and tints from deepest red to palest yellow? What kind of a vase is best for such a bouquet? Tell how to arrange artistically pansies, roses, columbines, etc.
 19. What is the cause of the color in the rainbow?
 20. To colors are ascribed certain characteristics and qualities. For example, red suggests fire, warmth and blood, and also creates irritation and arouses passion. What are the characteristics of blue? of purple? of green? of orange?

EXERCISE No. 35—BUTTONHOLES.

Materials: Blue Percalé 9" woof by 4" warp; red percalé for practice piece 18" woof 4" warp; white thread No. 40 and No. 70; needle No. 7.

Remember the old adage *Practice Makes Perfect*.

See description of the Buttonhole, page 66.

Note: As the buttonhole requires a great deal of practice it is well to keep practice pieces in the sewing box and work at it at odd times during the progress of the year's work. Encourage the girls, too, to practice on the buttonhole for home work. In this way they will gradually acquire the skill which comes only with practice. Fold the cloth, with the woof and through the center, and baste the edges together. Begin with the blind buttonhole.

The buttonhole model is intended to show how much skill has been acquired. Fold the percalé through the center, with the *woof*, and baste the edges together. Make the buttonholes three-fourths of an inch long and one inch apart.

EXERCISE No. 36—A TRIAL PIECE FOR THE BACK OF A PETTICOAT

Materials: Calico 14" woof by 6" warp, facing 11"x2", two bands 4½"x2"; white thread No. 60; needle No. 7.

S E W I N G

A Placket with a Continuous Facing: Fold the cloth through the center the short way and cut the opening five inches on the fold.

Follow the directions for Placket B, page 87.

Hemmed Band: Put a band on each side of the opening. Follow the directions for the hemmed band, page 82.

EXERCISE NO. 37—A HEMSTITCHED HANDKERCHIEF.†

Materials: Linen finished cambric 12"x12"; thread No. 80; needle No. 8.

Three-fourths of an inch from the edge draw four threads. Turn the first fold of the hem one-eighth of an inch and baste the second fold exactly to the edge of the opening, giving special care in turning the corners exactly even. Hemstitch. See directions for Hemstitching, page 79.

EXERCISE NO. 38—A ROUND HOLDER AND CASE.

Materials: Creton 15"x7 $\frac{3}{4}$ "; wadding; muslin 14"x7"; tape 34"; needle No. 7; thread No. 70.

Pattern: Draw a circle with a 3 $\frac{1}{2}$ " radius. Cut on the line. Proceed by the following successive steps:

To make the holder, cut two pieces from the muslin like the pattern. Baste the wadding to one piece of the muslin and place the other piece over it, turn in the edges, baste and overhand.

The holder may be quilted in a fancy design or tacked with French knots.

To make the case: Cut two circles from the creton as much larger than the holder as the material will permit.

Cut one circle through the center straight with the threads of the cloth. Hem the straight edges with a narrow hem. Baste the two halves to the other circle of creton, right sides out. Finish the edge by binding with the tape. Before hemming the binding down baste a loop of tape for hanging at the top of the opening. Slip the holder into the case.

C O U R S E O F I N S T R U C T I O N

EXERCISE NO. 39—A PETTICOAT WITH WAIST OR A PRINCESS SLIP.

Materials: Pupils will furnish their own material for this garment. The patterns which their mothers use can be secured from the home. The work can be more easily directed if one pattern is selected for the class. These skirts may be made plain or trimmed with ruffles of cloth or with embroidery, depending upon the wishes of the mothers, the skill and taste of the individuals and the material furnished. Should there be difficulty in securing material for the garment, a small model on the half-inch scale or one of the electives can be substituted. Insist that the work be well done, neatly finished and first class throughout. Use sewing machines when available.

Points to emphasize in the making of a skirt:

1. Cut a correct pattern before beginning the skirt. Do not trust to making corrections when cutting out.
2. Baste the straight edge of one gore to the bias edge of another when making a gored skirt. This prevents the sagging which would occur if two bias edges were sewed together.
3. Allow plenty in hem and tucks for letting down when making garments for growing girls.

EXERCISE NO. 40—TEXTILE FIBERS AND FABRICS—FLAX.

Under the heading "Textile Fibers and Fabrics," page 96, will be found subject matter which can be used in correlation with the geography, language and history work. The sixth grade subject is Flax. Make a collection of the flax products, fabrics, etc. A class set of compositions, each member of the class taking different subdivisions of the subject, would make an interesting collection.

ELECTIVES.

*A small doily may be substituted for the apron. This can be bought already stamped with embroidery cotton for working. See description of ornamental stitches, page 77.

SEWING

*Basketry or one of the fancy bags may be substituted for the apron.

†The hemstitched pin cushion may be substituted for the handkerchief.



ROUND BOTTOM BAG WITH RAFFIA COVERING.

HEMSTITCHED PIN CUSHION.

Materials: Muslin $3\frac{1}{2}'' \times 6\frac{1}{2}''$; two pieces of India linen $6'' \times 6''$; thread No. 80; needle No. 8. See illustration on page 36.

The cushion: Fold the muslin through the center the short way and stitch around the outside one-fourth inch from the edge leaving

an opening for filling. Fill with fine sawdust and close the opening with the overhand stitch.

The cushion cover: The bottom piece.—Draw five threads one and one-fourth inches from the edge on the four sides. Turn and baste the hem to this opening. Hemstitch. This piece will serve as a practice piece for the hemstitching and can be used also for the bottom of the pin-cushion. Follow the same directions for the top piece.

Pupils will furnish four tiny pearl buttons to button the two pieces together. Make the buttonholes in the middle of the hem of the top cover and sew the button on the bottom piece.

THE ROUND BOTTOM BAG WITH A FANCY RAFFIA COVERING.

Make the bag any size desired; a circle of three or four inches in diameter makes a practical one. Draw the pattern for the raffia covering on paper, the circle for the bottom being the same size as that of the bottom of the bag. The design for the sides may be in as many sections as desired. The tops of these sections may be shaped to suit one's taste—round, pointed or fancy. When the pattern is completed baste a strand of raffia on the pattern, following the lines of the design. Then closely blanket stitch with raffia on both sides of these strands. The spaces may then be filled with fancy lace stitches.

SEWING



A VARIETY OF BAGS WHICH MAY BE SUBSTITUTED FOR THAT OF EXERCISE NO. 33.

CHAPTER VI.

COURSE OF INSTRUCTION.

FIFTH YEAR—SEVENTH GRADE.

EQUIPMENT.

Sewing box or envelope case.

Pin cushion—30 pins.

Thimble.

Needles.

Scissors.

Thread cards.

Practice Piece—Unbleached muslin 12"x9".

Use No. 80 thread for machine work.

ORDER OF EXERCISES.

Prepare Thread Cards—Cardboard 4"x4", designed and cut for four kinds of thread.

Exercise No. 41—A Trial Piece for Finishing the Bottom of a Pair of Drawers.

Exercise No. 42—Drawers or Bloomers.*

Exercise No. 43—Christmas Piece.†

Exercise No. 44—A Study of Home Furnishing, Decoration and Care.

Exercise No. 45—Twist Buttonholes.

Exercise No. 46—Cloth Darning.

Exercise No. 47—A Study of Costume Design.

Exercise No. 48—A Nightgown, Bungalow Apron or a Simple Wash Dress.

Exercise No. 49—Eyelet Embroidery—A Napkin Ring.

Exercise No. 50—Textile Fibers and Fabrics—Wool.

*† See Electives, page 63.

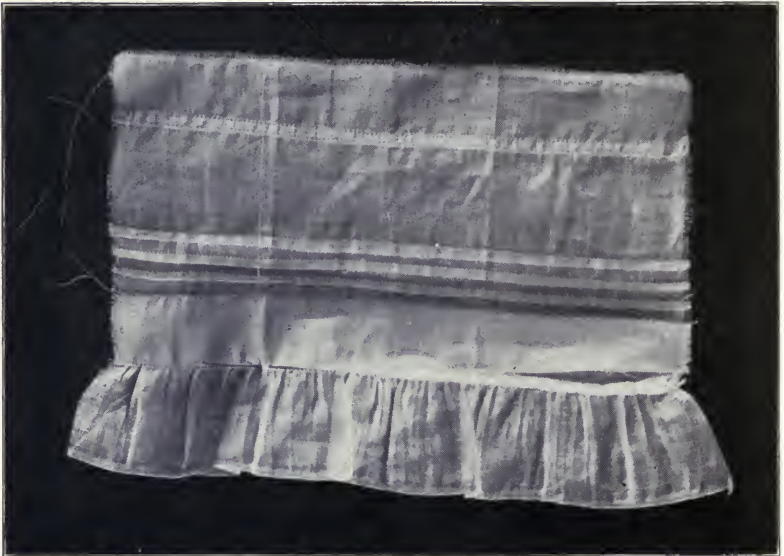
S E W I N G

DETAILED DESCRIPTION OF EXERCISES.

Review Divisions of the Foot and Yard Measure.

EXERCISE NO. 41—A TRIAL PIECE FOR FINISHING THE BOTTOM OF A PAIR OF DRAWERS.

Materials: India linen 8"x8", ruffle 12" woof, 2" warp; white thread No. 80; needle No. 7.



A TRIAL PIECE, GIVING PRACTICE ON THE HEMMED SEAM, TUCKING, AND PUTTING A RUFFLE INTO A HEM-TUCK.

Hemmed Seam: One inch and a quarter from the top crease a fold with the warp. Cut on this crease.

See description of the Hemmed Seam, page 91.

Putting a ruffle into a hem-tuck and tucking: Measure up from the bottom two and one-fourth inches—or twice the width of the hem-tuck

plus one-fourth inch for the seam—and crease with the warp, across the piece. Machine stitch, or run by hand an inch tuck, taking care to measure and make perfectly even. Measure up three-eighths of an inch from this stitching and crease for another tuck. Stitch, or run by hand an eighth of an inch tuck. Measure up three-eighths of an inch for another tuck. Put in a cluster of three tucks. Hem the ruffle with an eighth of an inch hem, gather and stroke the gathers.

See description of gathering and sewing a ruffle to a straight edge, page 72.

Place the wrong sides of the cloth and ruffle together and baste to the edge extending below the hem-tuck, bringing the seam exactly to the edge of the tuck. Baste and stitch the edge of the hem-tuck over the seam of the ruffle.

EXERCISE NO. 42—A PAIR OF DRAWERS OR BLOOMERS.*

Materials: Pupils will furnish materials for one of these garments. One style of garment for the entire class is preferable. Secure standard patterns in sizes required.

Finish the bottom of the drawers like Exercise No. 41. Finish the bottom of the bloomers with a hem and elastic, making a button-hole in the hem to slip the elastic in.

All seams to be finished with the French fell and the opening at the side with either placket A or B.

See pages 82 and 85 for bands and plackets.

Let "Good Workmanship" be your motto and tolerate nothing else.

EXERCISE NO. 43—CHRISTMAS PIECE.†

All Christmas gifts should represent the personal thought of the giver for the taste or need of the friend receiving it. Nearly all home keepers appreciate a useful, artistic thing for the home and no purchased gift can give the genuine pleasure experienced when one receives a gift made especially for her by a friend.

SEWING



TOWELS SELECTED FROM THE WORK OF A SEVENTH GRADE

C O U R S E O F I N S T R U C T I O N

Select from the following:

Guest Towels:

These may be made from plain linen crash at eighteen to twenty-five cents per yard, or from huck toweling from twenty-five cents to a dollar. Use linen, never cotton for a towel. There are a great many ways of making them. A few suggestions follow:

(a) Plain, ladder or zig-zag hemstitched hem with fillet-crocheted or embroidered initial.

(b) Fillet insertion or edge.

(c) Embroidered design.

(d) Cross-stitch design in colors.

Fancy Pillow Cases:

Pillow case tubing, one yard for each pillow. Finish with hemstitched hem, embroidery or crocheted insertion.

Sofa Pillows:

Pillow covers that can be laundered are especially good. The neutral grays and tans and old blues harmonize with most color schemes. This exercise affords an excellent opportunity for original designs.

EXERCISE NO 44—ART IN THE DECORATION OF THE HOME.

The following principles in home decoration should be given in nine or ten lessons scattered throughout the term and correlated with the sewing lessons. Their success or failure depends upon the teacher's power to arouse and interest her pupils.

No other phase of art training can be compared in its far-reaching and immeasurable effects upon the lives and characters of individuals with that of art brought to bear upon the decoration of the home.

From birth to death, every impression made upon one's consciousness, through the senses, has its effect upon that individual's personality. Environment plays a large part in the evolution of the race. Every thought, every act, which makes the sum total of one's life, comes from these impressions. With this psychological principle as a basis it is an indisputable fact that the schools can give no more important training than the taste-cultivation of the girls

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that they may be the makers of artistic, up-lifting, character-building homes.

Individual problems and tastes must enter largely into the scheme of decoration of the place where one must live, but there are certain well-established, fundamental principles which are outside the personal choice and mark the difference between the artistic home and the junk-shop or the museum.

1. The first question to ask one's self is, To what use is this room to be put? A dining room, a sleeping room, a library, are all different problems. The answer to this question will determine largely the kind of decoration required, because above all else is fitness. Allow nothing to enter into the decorative scheme that is not useful. Its use may be to beautify, but even in this it must aid and not interfere with the family life and activities. Let simplicity be the key note in the decoration of the home. Eliminate everything that is confusing, perplexing, or unrestful.

2. A room must be a unit with the ceiling, walls and floor as a back-ground for all other decoration. The floor as a foundation upon which all must rest will be the darkest in tone, the walls midway and the ceiling lightest.

3. The color selected must be determined by the position of the room on the north or south side, the amount of window space, the use to which the room is to be put and individual taste. Select the warm bright colors for dark, cheerless or small rooms, and the cool, subdued colors for the overbright ones. See Exercise No. 34.

4. Much can be done by wall-treatment to change, in effect, rooms out of proportion. Ceilings too high may seemingly be lowered by continuing the ceiling decoration on the side wall. Vertical line designs in wall paper carried to the ceiling will do much toward raising a low ceiling. Select a wall paper with great care, choosing only that which is restful, harmonious and unobtrusive. Prevailing fads, often times trade tricks, may be disastrous.

5. Because it is a large mass of color the floor covering can easily mar an otherwise good room. Harmony in color there must be. Avoid loud, aggressive colors and patterns, as well as all floral de-

signs. If the room is too small a larger effect is obtained by covering or nearly covering the floor space.

6. Curtains and other hangings must be selected first for their use. As the light is to filter through the curtain one must decide whether more light is required, or the windows protected from the glare of the sun. A refinement of taste dictates the proper selection of the textile, the design and the color of the curtains to be used. There can be no rule. The window curtains should be hung inside the casement on slender brass rods, and just escape the window sill. An additional curtain, sometimes used in the decorative scheme, should clear the floor.

7. Volumes might be written on the choice of furniture. Use and fitness, of course, are considered first. A chair may be useful and beautiful and fit into its surroundings; it cannot be decorative alone for its purpose is to be sat upon. Here again, simplicity in structural lines is safest. Avoid anything massive for ordinary living rooms. Great divergence in shapes, lines and quality, is not successful. Buy a thing because it is well made, good in line and proportion, and fits into the scheme of your room, harmonizing with every thing else there, or go without it.

8. A picture is a decoration only when it harmonizes and blends with the wall upon which it is hung. It should never be a spot upon the wall confusing to the eye and unconsciously distracting the mind. Many pictures, or pictures in groups, are perplexing and unrestful. Pictures should be hung with the center of the picture on a level with the eye of the average person. If there are several pictures in the room hang them with the tops on a level instead of the zig-zag plan usually followed. Frame pictures with the molding to the edge of the picture or if the picture seems to require a larger frame use a mat of the same color, never one of a sharp contrast which gives the effect of a frame within a frame.

9. Use bric-a-brac sparingly and with great caution. Never let your home give the impression that you are displaying a collection. Remember that nothing is decorative unless it is fitting, beautiful in its way, and necessary, no matter how expensive it may be.

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10. It is true, there are people gifted with a finely discriminating color-sense and an intuitive balance of arrangement and power of selection who instinctively know the good from the bad. There are others so lacking in these qualities that they cannot see the garishness even when it is pointed out to them. The decoration of man's habitation is more than a knack; it is an Art.

Give written tests on the subject matter above:

Have pupils bring samples of wall paper, select the good and the bad and tell why they think so.

Each girl will decide upon a color scheme for a room, select her wall and ceiling paper and write a composition describing this room, illustrating as far as possible.

EXERCISE No. 45—TWIST BUTTONHOLES.

Materials: French flannel $3\frac{1}{2}$ " warp by $6\frac{1}{2}$ " woof; twist; sewing silk; needle No. 7. Practice piece, shaker flannel $3\frac{1}{2}$ "x13".

See description of the buttonhole, page 66.

Double the flannel through the center the long way, baste along the folded edge and around the piece. Overcast the raw edges. Begin one-half inch from the top and make the buttonholes three-fourths of an inch long and three-fourths of an inch apart. Strand, overcast and finish with the bar.

EXERCISE No. 46—CLOTH DARNING.

Materials: Albatros 5"x6"; patch $1\frac{3}{4}$ "x2"; sewing silk; needle No. 7; beeswax.

See description of Cloth Darning, page 71.

Four holes, cut as follows, are to be darned on this piece of cloth:

No. 1. In the lower left hand corner one inch from the bottom and the side, cut one inch straight with the warp. Darn with split sewing silk on the wrong side.

No. 2. In the upper left hand corner, one inch from the top and side, cut one inch with the warp and one inch with the woof.

This will serve for a three-cornered tear. Darn on the right side with ravelings. Spread the stitches at the corner like the sticks of a fan.

No. 3. In the lower right-hand corner, one inch from the bottom and the side cut one inch on the bias. Darn with split sewing silk on the wrong side. Baste a small piece of glazed paper under the cut before darning.

No. 4. In the upper right-hand corner, one inch from the top and the side cut one inch across the warp. This will serve for a worn place in the cloth. Place the patch under it and baste around the edge. Darn with ravelings on the right side. Trim the edges of the patch smooth and herringbone stitch with ravelings around it.

Finish the edge of the piece with the blanket stitch.

Follow this exercise with the repairing of some article brought from home that will give a practical experience in cloth darning. Should there be any difficulty in securing these articles there are plenty of homes that will supply enough for the entire class. *This must be done under the teacher's supervision.*

EXERCISE NO. 47—STUDY OF COSTUME DESIGN.

The study of costume should be given in nine or ten lessons scattered throughout the term and correlated with the sewing lessons.

1. Read the chapter on "Costume," page 105, one section each day and discuss freely the statements made there.

2. Review briefly the work on color under Exercise No. 34.

3. Each pupil will design, in color, three costumes for young girls for a page in a fashion book. Select from fashion books three figures suitable for this purpose and cut them out. Before arranging and pasting on a sheet of drawing paper make an outline of each dress by drawing around the figure. With this as a guide design simple dresses with good artistic lines. Color with water colors appropriate for the style of the dress.

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4. What are the marked characteristics of dress in the following nations: Japanese? Turks? Norwegians? Spanish? American Indians? Dutch?



A PAGE FOR A FASHION BOOK ARRANGED BY A SEVENTH GRADE GIRL.
EXERCISE NO. 47.

5. The accessories of dress are those things which added make the costume complete, such as gloves, shoes, ties, hair ribbons, hats, etc. Write five rules which you think should govern the choice and care of the accessories.

C O U R S E O F I N S T R U C T I O N

6. Each pupil will prepare herself to talk two minutes on "Suitable Styles of Hairdressing for Young Girls."

7. Give a written test on the subject of costume.

EXERCISE NO. 48—A NIGHTGOWN, BUNGALOW APRON
OR SIMPLE WASH DRESS.

Materials: Pupils will furnish their own materials for one of these garments. The patterns for the slip-over gown and the bungalow apron are practically the same. Make careful selection of patterns. One style, in different sizes, for the entire class is best.

The crocheted yokes or edges or tatting make very satisfactory trimming for the gown if well made from the proper thread.

Keep always in mind that the beauty of any garment will depend upon the nicety of taste in selecting the *right* materials—by no means the most expensive—and the neatness, daintiness and care in the making.

EXERCISE NO. 49—EYELET EMBROIDERY—A NAPKIN RING.

Materials: Butchers linen 3"x8" stamped with design; crewel needle; embroidery cotton.

See page 77 for the description of the embroidered edge, and page 84 for the eyelet. Fasten with a button and buttonhole.

EXERCISE NO. 50—TEXTILE FIBERS AND FABRICS—WOOL.

Under the heading, "Textile Fibers and Fabrics," page 96, will be found subject-matter which can be used in correlation with the work in language and geography. Make a selection of wool products and fabrics. Write a composition on wool.

ELECTIVES.

*The following may be substituted in place of Number 42.

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MAKING OVER AN OLD GARMENT.

This is a most useful lesson. In every home there are to be found garments which are made of good materials but which are out of style. This should be utilized and these old garments not allowed to accumulate. Do not spend time on outworn garments. A wool dress skirt, even though faded, or a light overcoat may be turned and made into warm clothing for children.

Rip up the garment and carefully wash and iron the pieces. Do not be afraid of piecing when making a garment over, being sure that the pieces run the same way of the cloth and that the seams are pressed and finished with the flannel or the flat seam.

Secure from the home a pattern for a pair of drawers, bloomers or little skirt for a little brother or sister or for a poor child of the neighborhood.

†A doily may be selected for a Christmas gift.

Materials: A doily may be purchased already stamped if desired. Select a simple, artistic design which requires simple embroidery stitches and not too much labor.

See description of ornamental stitches, page 77.

CHAPTER VII.

DESCRIPTION OF STITCHES.

STITCHES USED IN PLAIN SEWING.

- | | |
|------------------------|------------------|
| 1. Basting. | 8. Hemming. |
| 2. Blind Stitch. | 9. Overcasting. |
| 3. Buttonholes. | 10. Overhanding. |
| 4. Combination Stitch. | 11. Running. |
| 5. Darning. | 12. Slip Stitch. |
| 6. Gathering. | 13. Stitching. |
| 7. Halfback Stitch. | |

ORNAMENTAL STITCHES.

- | | |
|--------------------|--------------------------------|
| 1. Applique. | 6. French Knots. |
| 2. Blanket Stitch. | 7. Hemstitching. |
| 3. Chain Stitch. | 8. Herringbone Stitch. |
| 4. Couching. | 9. Kensington Outline. |
| 5. Feather Stitch. | 10. Lazy Daisy or Star Stitch. |

MISCELLANEOUS.

- | | |
|-----------------------------------|-------------------------------|
| 1. Bands. | 10. Seams. |
| 2. Bias. | A. Bound Seam. |
| 3. Cloth. | B. Flannel Seam |
| 4. Eyelets and Loops. | C. French Fell. |
| 5. Joining and Fastening Threads. | D. French Seam. |
| 6. Mitered Corner. | E. Hemmed Seam. |
| 7. Patterns. | 11. Sewing on Buttons. |
| 8. Plackets. | 12. Sewing on Hooks and Eyes. |
| 9. Putting in Sleeves. | 13. Sewing on Lace. |
| | 14. Tucking. |

SEWING

STITCHES USED IN PLAIN SEWING.

Basting.—Basting is temporary sewing used to hold the cloth in place while putting in permanent stitches. As the basting threads are to be removed, place the knot on the right side. Fasten the threads securely by taking two or three backstitches. In removing basting threads clip the threads at short intervals that they may be taken out easily. Much of the success of the work depends upon careful basting. The extra time required will be repaid ten-fold. One stitch at a time for beginners, later two or three stitches may be taken. In basting hems, baste not on the edge, but very near it. Do not baste on the line where you expect to stitch, but as near it as possible.

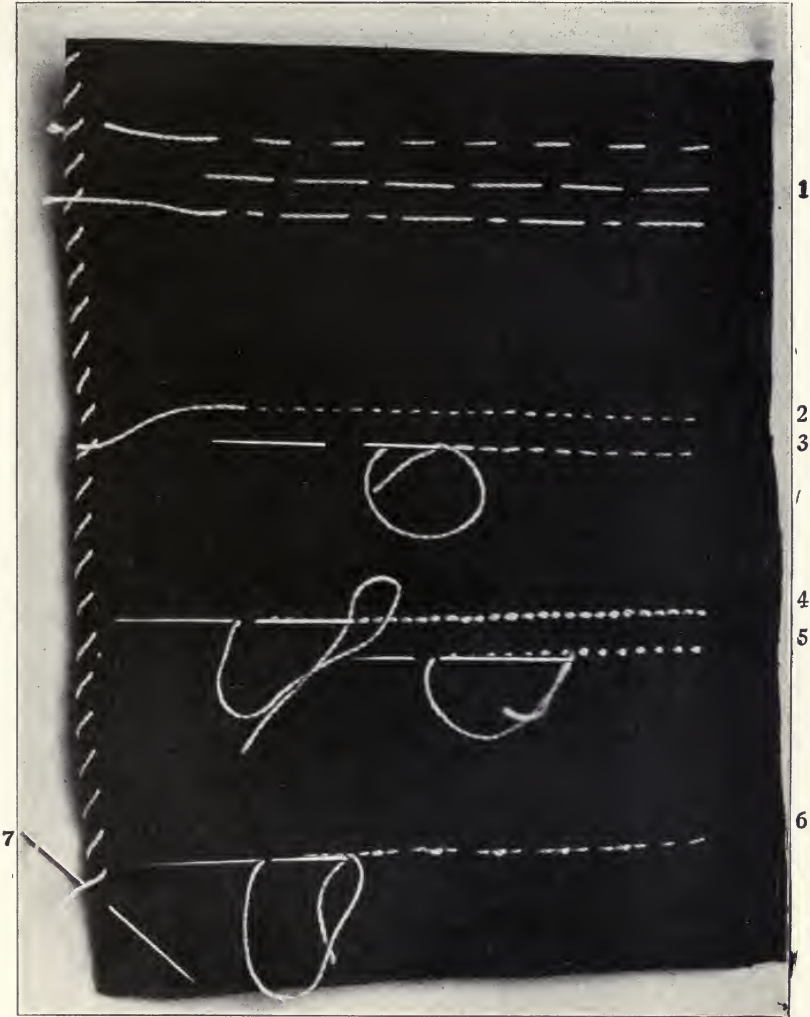
A. An even basting is used on hems, seams of garments, or whenever two pieces of cloth are to be held firmly together. Take up one-fourth of an inch and skip one-fourth.

B. Uneven basting is used where very careful basting is unnecessary, as in the seams of skirts, or in working on a material that clings together, as a guide for stitching. Take up an eighth of an inch and skip three-eighths. When only loose basting is required, as when holding the lining and outside together, a long stitch and two short ones may be used.

Blind Stitch.—The blind stitch and slip stitch are used to fasten a hem lightly where it is desired to conceal the stitches. To blind stitch a hem, turn back the edge of the hem to the basting and, holding the cloth along the edge of the finger, catch first cloth and then hem with a single stitch that does not show on either side. A slip stitch is a long stitch on the wrong side and a blind stitch on the hem. It is used on the milliner's fold.

Buttonholes.—A buttonhole is a slit cut and worked to admit a button for fastening purposes. It is much easier for beginners to commence on the blind buttonhole. This is made by working around a line instead of cutting the hole. The stitch, the fan, and the finishing can thus be learned without the care of the raw edge. The directions for making the buttonhole are as follows:

DESCRIPTION OF STITCHES



STITCHES USED ON PLAIN SEWING.

- | | |
|-----------------------------|----------------------------|
| 1— Three styles of basting. | 5— The half-back stitch. |
| 2— The running stitch. | 6— The combination stitch. |
| 3— The gathering. | 7— The overcasting. |
| 4— The backstitch. | |

S E W I N G

A. PREPARATION OF THE HOLE.

a. *Cutting*—With the buttonhole scissors cut the hole one-fourth of an inch from the folded edge and straight with the threads of the cloth.

b. *Stranding*—The strand consists of carrying the thread along the edge of the buttonhole near enough to be easily covered by the buttonhole stitch, for the purpose of adding strength to the buttonhole. Thread two needles, one with fine thread or sewing silk and the other with coarser thread or twist, depending upon the kind of buttonhole to be made. Place a knot in the coarse thread or twist, and with the folded edge of the cloth toward the left hand, bring the needle out just below the lower right hand end of the buttonhole, which is the end farthest from the folded edge. At the other end put the needle into the cloth just below the end of the cut and bring it out just above, which will carry the thread along the edge of the buttonhole. Repeat the same on the other side bringing the thread out at the point of starting. Do not cut this thread, as this is ready to begin the buttonhole stitch after the overcasting.

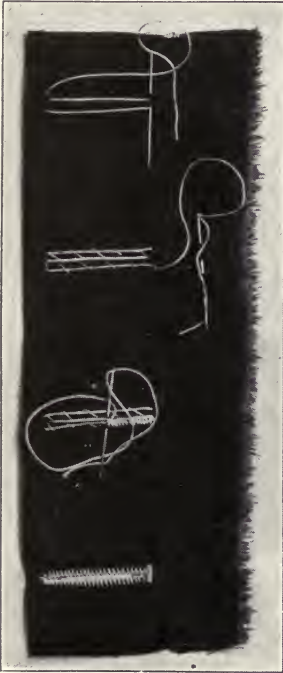
c. *Overcasting*—With the fine thread or sewing silk begin at the lower right-hand end. The object of the overcasting is to prevent raveling while working the buttonhole and the fewer stitches which will accomplish this purpose the better. As the overcasting must be covered by the buttonhole stitch do not take over two or three threads deep and just as few stitches on each side as is absolutely necessary to prevent the loosening of the threads. Some materials do not require overcasting.

B. WORKING THE BUTTONHOLE.

a. *The Stitch*—Determine how deep a stitch is necessary so that the threads will not pull out, always keeping in mind that *the shorter the stitch the better the buttonhole will look*. This depends upon the kind of material in use. The first stitch begins one thread beyond the end of the slit. Holding the buttonhole along the cushion of the left forefinger with the folded edge of the cloth toward the left, place the needle into the slit under the lower edge of the buttonhole and draw the needle half way through. With the needle still point-

DESCRIPTION OF STITCHES

ing toward the chest take up the double thread at the eye of the needle and place it under the point, passing *from right to left*. Draw the needle and thread out, and from you, so that the purl or twist comes to the edge of the slit. (This makes a firmer edge than when the thread is carried around the needle from left to right.) Each stitch is a repetition of the above. Place the stitches about the width of a thread apart, as this will avoid a crowded appearance and makes a firm, hard edge. Do not jerk the thread, but draw steadily and tight; otherwise the edge will be rough. Avoid stretching the buttonhole; the edges should touch when finished.



SUCCESSIVE STEPS IN MAKING
THE BUTTONHOLE

b. *The Fan*—At the end near the folded edge—the round end—spread the stitches like the sticks of a fan, drawing them closer at the top and spreading at the bottom. Five stitches will work nicely around the end, the third stitch being straight with the buttonhole.

C. METHOD OF FINISHING THE BUTTONHOLE.

a. The simplest manner of finishing is as follows: The buttonhole stitches at this end are at right angles to the slit, and not rounding as at the other end. After finishing

the last buttonhole stitch, pass the needle down between the first and second stitch, and bring it out between the last and next to the last stitch. Draw the thread tight so as to bring the edges of the button-

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hole together. Put in several stitches in the same place. Pass the needle to the under side and fasten the thread.

b. *The Bar*—The thread being at the top of the last stitch, pass the needle down between the first and second stitch and out at the bottom of the last stitch. Put in three threads across the width of the buttonhole, bringing the thread out at the bottom of the last buttonhole stitch. Turn the cloth so that the thumb covers the thread and the buttonhole, and work the bar by bringing the needle out each time over the thread, as in the blanket stitch. Draw the purl edge toward the buttonhole. Do not put in too many stitches, as it makes the loop stand away from the buttonhole. Near the middle of the bar take one stitch through the cloth to hold it down.

c. *Caution*—Be sure that the thread is long enough to work the buttonhole, but not over-long, as the thread wears and is more liable to break. Use care and not break the thread, but in case this happens, take out the last few stitches, thread the needle on this short end, pass through the last purl, and fasten the thread on the under side. With the new thread fasten without a knot on the wrong side, bring through the last purl at the edge of the buttonhole and continue.

On cloth that ravel badly put in two parallel rows of running stitches and then cut the buttonhole between the rows.

Combination Stitch.—The Combination stitch consists of three little running stitches and a backstitch over the last running stitch. Take three running stitches on the needle and pull it through. Take up the last running stitch for the first of the next group of three. It is a little stronger than the running stitch. See illustration page 67.

Darning.—The object in darning is to repair a rent, if possible, so that it cannot be perceived. The warp and woof threads that have been worn away are to be rewoven into the cloth. No knots are needed. Leave a short end of thread to be clipped when the darn is finished.

DESCRIPTION OF STITCHES

A. STOCKING DARNING.

Stockings should be darned on the wrong side. A square hole makes a more symmetrical darn than a round one, and should be used wherever there is no widening or narrowing in the knitting, as on the leg of a stocking. A round hole is better for the heel and toe. Cut away the part that is badly worn. First put in the warp threads, taking care to take up on the needle all the little loops around the hole and making the darn symmetrical in shape. Then put in the woof threads, weaving carefully across the warp over the hole, passing over the threads that were taken up on the preceding row. *Give special attention to the edge of the hole, passing first over and then under the edge, that there may be no ridge.* If the hole is large or stretched out of shape, draw up the edges by whipping with fine thread. The darning stitches should extend only as far as the worn part. If the warp threads have strengthened the worn part sufficiently the woof threads may be extended only far enough over the edge to fasten securely. In darning a large hole it is sometimes wise to begin putting in the warp threads at the center first to prevent stretching. Do not draw the threads too tight, as they will shrink when washed.

B. CLOTH DARNING.

This may be done with thread, ravelings or hair. In darning with thread darn on the wrong side, with ravelings or hair on the right. Darn at right angles to the tear or cut. Continue the darning stitches on each side of the tear only far enough to strengthen the worn part, usually a quarter, sometimes an eighth of an inch, is sufficient. Continue the darn an eighth of an inch beyond the end of the tear. The repairing shows less if the rows of darning stitches are of unequal length. In darning take up the threads of cloth passed over in the preceding row, slipping the needle over one edge of the tear and under the other going one way and reversing this order going the other way. This makes the edge smooth and does not throw it up in a ridge. If the material to be darned is thin or stretches easily, place the rent over a piece of glazed paper and baste around it before darning. If the cloth is worn and thin, place a piece of cloth under

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and darn through the two thicknesses. Take great care not to stretch the hole or to draw the threads tight enough to pucker.

Gathering.—Gathering is an uneven stitch made by passing over twice as much as is taken on the needle. When the thread is drawn up this gives the appearance of fine gathering on the right side and admits of considerable cloth being gathered into a small space.

Gathering is used in joining a full part to a straight piece, as the skirt to the band, etc. Gather with a strong single thread a little longer than the space to be gathered. *Never use a double thread.* If the thread becomes knotted a new thread must be put in from the beginning. Hold the cloth, as in the running stitch, with the right side toward you, using the wrist motion. Make a large knot in the thread so that it cannot slip through the cloth, and place the knot on the *wrong* side. At the end of the gathering slip the needle off and make a knot in the thread, that it may not pull out.

A. STROKING GATHERS.

For stroking or placing gathers use a coarse needle or a pin. Draw up the gathering thread just tightly enough so that the pin can be easily inserted between the gathers and fasten by winding over a pin placed at right angles to the last stitch. Begin at the left hand, placing the pin in the fold of the first stitch and stroke gently downward, holding the pin obliquely. After each successive stroke press the pleat under the thumb of the left hand. Continue the same with every stitch.

B. SEWING THE GATHERED PART TO THE STRAIGHT PIECE.

Divide both into halves, quarters or eighths, depending upon the length, and pin the points of division together. Draw up the gathering thread to the proper length and fasten by winding over a pin. Arrange the gathers even before basting. Baste just above the gathers, holding the gathered piece next to you. *Stitch just below the gathering thread.*

C. GAUGING.

Gauging or double gathering is done by having a second row of gathering stitches of equal length and directly below those of the first so that when both threads are drawn up the cloth lies in pleats.

DESCRIPTION OF STITCHES

In heavy material three or four threads may be put in. Gauging is usually used on heavy material or on a folded edge that is to be overhanded to a band.

D. GATHERING BY WHIPPING A ROLLED EDGE.

Ruffles of lawn, linen or embroidery are sometimes put upon the edge instead of into a facing or seam, and when so placed it is desirable to avoid the raw edge on the under side. Hold the work over the left forefinger and roll the edge toward you between the thumb and forefinger. Place the needle under the roll on the right side, passing out at the top of the roll. Whip about one inch and draw up the thread. It is necessary to use a strong thread for whipping and gathering the edge of a ruffle.

Half-Back Stitch.—Half-back stitching is similar to the stitching. The long forward stitch on the under side is three times the length of the backstitch on the upper side, and a space the length of the backstitch is left between the stitches. See *Stitching*, page 75.

Hemming.—A hem is a fold made by twice turning over the edge of a piece of cloth, and then sewing it down. The first fold is most important; if that is turned even there will be little trouble with the second. *Trim the edge of the cloth before turning the hem.* It is well to make and use a gauge of the required width. If a wide hem is turned, baste along the second fold or bottom of the hem first, and then at the top. On woolen goods or material that does not crease easily it is necessary to baste the first fold. Either bury the knot between the folds of the hem or leave one-half inch of thread and hem over it.

A. HEMMING STITCH.

Hold the hem across the cushion of the left forefinger and point the needle a little to the left across the middle of the thumb. Take up a few threads of the cloth and a few threads of the fold and draw the needle through. Take care that the stitches are regular, of equal length and of equal distance apart. *Do not confuse the hemming stitch with the blind stitch, or the damask hem.* Join the threads by leaving a

half-inch of the old thread and a half-inch of the new to be tucked under the edge of the hem and be hemmed over.

Teachers will find the following suggestions helpful in teaching the hemming stitch:

Put the needle in *almost* straight with the hem, not at right angles to it. Take up as little cloth on the needle as possible; bring the needle directly through the hem, making one stitch of it instead of dividing the stitch as in the blind stitch. Crowd the point of the needle under the edge of the hem. Do not insert the needle a distance from the hem, trusting to puckering it up.

B. DAMASK HEM.

Damask is a heavy fabric woven of heavy threads of one color in which the pattern is brought out by a change in the direction of the threads, and when new is stiff with much dressing. From the very nature of the cloth it is impossible to hem well with the flat hem. The two folds of the hem are turned the desired width and the hem is then turned back flat to the cloth and creased. The edge of the hem and the crease thus formed are overhanded together with fine even stitches. When laundered this irons perfectly smooth and the stitches do not show on the right side. Do not confuse this method of hemming with the flat hem, as each has its own use.

Overcasting.—Overcasting is done by taking loose stitches over the raw edge of cloth from right to left to keep it from raveling. The depth of the stitch depends upon the material to be overcast, usually an eighth of an inch is sufficient. The stitches should be twice as far apart as they are deep. The needle is inserted from the under side of the cloth and points a little to the left, making a slanting stitch. Keep the spaces even and the stitches of equal length. *Always trim the edges before overcasting.* Do not overcast a selvedge edge. Take only one stitch at a time and be careful not to draw the edge of the cloth. See illustration page 67.

Overhanding.—Overhanding is done by sewing closely over two edges of cloth from right to left. The cloth may have a folded or selvedge edge. Careful basting is necessary to good overhanding.

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The needle is placed at a right angle to the seam and should point to the chest. No knot is used; a short end of the thread is left and overhanded under. Hold the work horizontally along the edge of the cushion of the left forefinger and the thumb. Do not wind the cloth over the end of the finger. The stitches are straight on the under side and slanting on the top. Do not draw the threads tight enough to make a hard seam and also avoid a loose stitch that will not hold the edges together when the seam is opened. A deep stitch is not necessary for strength and will not look well on the right side when opened. To join the threads leave a half-inch of the old and a half-inch of the new, lay them along the edge and overhand over them.

Running.—Running is done by taking up and slipping over an equal amount of cloth.

Running is used for seams that do not require great strength, and also for tucking. Care should be taken not to draw the thread tight enough to pucker. Make a small knot in the thread and conceal it on the wrong side or in the folds of the cloth. Hold the work in the left hand between the thumb and cushion of the forefinger; hold the needle in the work between the thumb and forefinger of the right hand. Use the wrist motion.

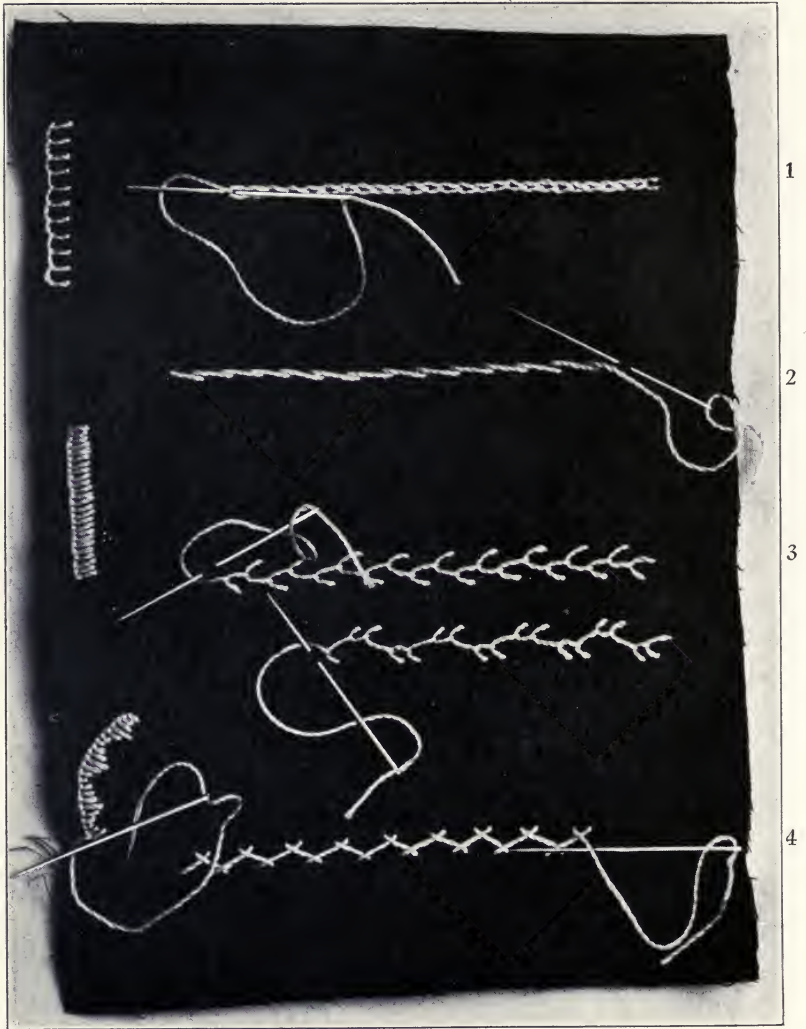
Fasten the thread by passing the needle through to the wrong side and taking two backstitches.

Slip Stitch.—See Blind Stitch, page 66.

Stitching.—Stitching is so called because it resembles machine stitching. It is also known as back-stitching. Stitching is done by taking a stitch backward on the upper side of the cloth and a long stitch forward on the underside, making the stitches meet on the top as in machine stitching. Use a small knot in beginning. Hold the work over the cushion of the left forefinger.

Fasten the threads on the wrong side by taking several backstitches, one over the other, through one thickness of the cloth. To join threads in stitching fasten securely on the wrong side and begin with a small knot, bringing the thread through at the proper place

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ORNAMENTAL STITCHES

- | | |
|-------------------------------------|------------------------------------|
| 1— The chain stitch. | 4— The herringbone stitch. |
| 2— The Kensington stitch. | 5— Three styles of blanket stitch. |
| 3— Two styles of feather stitching. | |

DESCRIPTION OF STITCHES

for beginning the new stitch. It is used where strength is required, or on garments too small to go into a machine conveniently. See illustration page 67.

ORNAMENTAL STITCHES.

Applique.—This is an ornamentation produced by cutting a design from one kind or color of cloth and placing it upon another. Very beautiful effects can be obtained, with perfect harmony of color and the proper combinations of textiles. The edge can be finished with the blanket, couching, Kensington or chain stitch.

Blanket Stitch.—The blanket stitch, often erroneously called the buttonhole stitch, is used for finishing raw edges. It is worked from *left to right*, and the buttonhole stitch from *right to left*. See illustrations on pages 67 and 76. The depth of the stitch and the space between stitches may be varied and will depend upon its use. If the thread is not fastened and joined carefully the symmetry of the stitches will be broken. A new thread must come up through the loop of the last stitch.

A. TO FINISH THE EDGE OF FLANNEL OR HEAVY CLOTH.

Insert the needle at a point the desired depth of the blanket stitch and take one or two running stitches to the edge of the cloth, which will bring the thread in position for the first stitch. Make the first blanket stitch over these running stitches. Holding the edge of the cloth toward you insert the needle at the same point as before and bring the needle out over the thread and draw the loop thus made to the edge of the cloth. Repeat for successive stitches. For a simple finish for a flannel edge the stitches should not be placed too close together. As far apart as the depth of the stitch is a good rule, unless greater ornamentation is desired, when three, five or seven stitches may radiate from one point.

B. FOR EMBROIDERING AN EDGE—STRAIGHT, SCALLOPED OR IRREGULAR.

The stitches are the same as in "A" but should be placed close enough together so that the threads touch, making a firm edge.

The embroidery should be done before the edge is cut. It can then be finished in various ways. The narrow edge can be turned back and whipped down on the wrong side, or blanket stitched just over the edge with fine cotton thread. On lingerie pieces the edge is not cut until after the first laundering. If desired the edge can be padded before working with the blanket stitch. The padding is done with a soft, coarse thread by working along the edge with either the Kensington or chain stitch, or it may be heavily "padded" by filling the space.

- C. The blanket stitch is also used for working the blind loop and the buttonhole bar.
- D. See Couching, below.
- E. See Lazy Daisy or Star Stitch, page 82.

Chain Stitch.—The chain stitch is used for outlining a design, marking garments, etc. Insert the needle on the line and draw the thread through to the knot. Insert again at the same point and take up on the needle cloth for the desired length of stitch and draw the needle out *over* the thread. In placing the needle for succeeding stitches begin inside the preceding stitch. The Half-Chain Stitch is very effective for stems of flowers, or wherever a fine outline stitch can be used. This is made the same as the chain stitch, except that the needle is inserted just outside and to the right of the loop instead of in the end of the loop.

Couching.—Couching is a coarse blanket stitch done over two or three strands of silk, linen or cotton floss. It makes an attractive finish for a hem line and also for finishing the edge in applique.

Feather Stitch.—(See illustration on page 76.) The principal use of the feather stitch being that of ornamentation requires that it shall be evenly and carefully done, or it fails in its purpose. The feather stitch consists of alternating stitches, or groups of stitches, slanting toward a center line. The stitch may be varied greatly by the length of the stitch, the slant of the stitch, and the number of stitches on each side. The tendency is to gradually increase the length

DESCRIPTION OF STITCHES

of the stitch which must be carefully avoided, as well as a change in the slant. Do not make too long a stitch, as there is danger of catching and breaking the thread. The feather stitch can be used very effectively in scroll designs for the ornamentation of sofa pillows, cushion covers, collars, underwear, etc.

A. SINGLE FEATHER STITCHING.

Work toward you, holding the cloth over the left forefinger. With a knot in the thread insert the needle from the under side a short distance to the right or left of the line the feather stitching is to follow (which may be designated the center line) and draw the thread through. Place the left thumb over the thread to hold it down, and on the opposite side take up a slanting stitch, the top of which is as far from the center line as the length of the stitch, and the bottom touching the center line. Draw the needle out over the thread which will thus form a loop of the thread from the first stitch. On the opposite side take up another slanting stitch the top of which is an equal distance from the center line and even with the bottom of the last stitch. Repeat for successive stitches. At the end of a thread fasten by passing the needle down where the thread last came through the cloth, thus holding the loop from the last stitch in place. Begin a new thread by passing the needle up through this loop.

B. DOUBLE FEATHER STITCHING.

This consists of alternating groups of two, three or more stitches instead of single stitches. The successive stitches of each group must be placed directly under the first stitch of the group.

French Knot.—Bring the needle through from the under side. With the needle in the right hand, take hold of the thread with the left hand about an inch from the cloth and, holding it taut, wind it several times around the point of the needle. Return the needle to the same hole through which it came out, and draw it back to the under side.

Hemstitching.—Hemstitching is a method of hemming in which a few parallel threads are drawn, the hem turned to the line thus

formed, and hemmed down with the same stitch that separates the cross threads in successive clusters. There are several modifications of the hemstitch. The following methods have been selected as being the best for four reasons: (1) The thread is thrown under the edge of the hem, and consequently wears longer and shows less. (2) The only part of the thread showing on the right side is the loop around the cross threads. (3) It is readily taught to children, as it is simple, easy to remember, and can be given as two distinct parts. (4) It is the natural way to hold the hem.

a. *Drawing the threads*—Measuring from the edge of the cloth, allow twice the width of the desired hem when finished, plus the first fold, and draw several threads, the exact number depending upon the texture of the fabric. Draw the first thread the entire length before starting the second, as it is liable to break where the first one did. The first thread being drawn, the second will come more readily. Beginners are inclined to draw too many threads. Unless both edges are to be hemstitched the opening should be narrow enough so that the threads at the top will not loosen.

b. *The Hem*—Turn the first fold of the hem and baste to the exact line of the opening. Careful basting is indispensable to good hemstitching, and especially so at a corner where two hems cross. Miter all corners of hems that are more than one-fourth of an inch in width.

c. *The Stitch*—Hold the cloth over the left forefinger as in ordinary hemming. Bury the knot by inserting the needle under the edge of the hem and drawing it through. The stitch consists of two distinct parts, (1) forming the loop around the cross threads, and (2) catching down to the edge of the hem:

(1) Pointing the needle toward you and holding the thread under the left thumb, take up on the needle three or four of the cross threads. Draw the needle out over the thread, thus forming the loop, and tight enough to separate the cross threads.

(2) Insert the needle under the edge of the *hem* only and take an ordinary hemming stitch. Repeat 1 and 2 for the next stitch.

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Herringbone Stitch.—(See illustration on page 76.) The herringbone or catch stitch is a cross stitch used to finish the raw edges of flannel or heavy material. It serves both the purpose of overcasting over a raw edge and that of hemming. It is used on raw edged hems to avoid the ridge formed by the first fold of a hem, on the flannel patch and for finishing the flannel seam, which may be pressed open and both single edges herringbone stitched, or both folded to one side and finished over the double edge. In most cases the open seam looks better.

The stitch consists of single, alternating running stitches made first to the right and then to the left, working from you instead of toward you as in ordinary running. The thread being carried across from one stitch to another, gives the appearance of a cross stitch. The stitches on each side must be in straight rows, with the outer row just over the edge of the flannel. The stitch should be no deeper than necessary to prevent pulling out. A good rule for beginners is to make the top of each stitch even with the bottom of the last stitch. *Point the needle toward you in making the stitch, but work away from you.* The edge of the flannel must be kept smooth. This being a cross stitch the thread of one part of the stitch is on top and the other underneath. Be sure that this is regular, those slanting in the same direction should be always either to the top or to the bottom.

Kensington Outline Stitch.—(See illustration on page 76.) This stitch is used to follow the line of a design for ornamentation. To avoid the knot, when starting begin half an inch from the end of the line to be followed, and put in three or four running stitches, bringing the thread out at the proper place for starting. Turn the cloth around, holding it over the left forefinger, and work from you. Pointing the needle toward you, take a short running stitch directly on the line keeping the thread always on the right side of the needle, except on a line curving sharply to the left when the thread will fall more naturally to the left side. The thread being carried from one stitch to another gives the effect of a long diagonal stitch

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on the right side and running stitches on the wrong. The length of the stitch will be determined by the size of the thread and the character of the line to be covered, a curved line requiring a shorter stitch than a straight one.

Lazy Daisy or Star Stitch.—This is a variation of the blanket stitch. Insert the needle at the point desired for the center of the flower and draw the thread through. Insert again at the same place and take up the desired length of stitch on the needle, drawing the needle out over the thread. Pass the needle down through the cloth at the point where it came out, but on the other side of the loop, thus forming a second loop at the end of the petal to hold it in place, and return the needle again to the center of the flower. Make as many petals as desired and finish with the French knot in the center of the flower. This stitch also makes a pretty star, using six points and finishing without the French knot.

MISCELLANEOUS.

Bands.—A band is a straight piece of cloth used to finish garments at the neck, wrist or waist. It may be sewed to a straight, gathered or pleated edge. A band cut with the warp is stronger than one cut with the woof.

A. HEMMED BAND.

See description of the Gathering, page 72. Gather as desired. Place the right sides of the cloth and band together and baste just above the gathering thread, taking care that the gathers are arranged perfectly even. Stitch just below the gathering thread. Turn in a fourth of an inch at the ends and along the other side of the band. Fold the band over just covering the gathers, and baste. Hem or stitch along the edge, overhanding the ends of the band.

• B. OVERHAND BAND.

See description of Gauging, page 72. Make the band by turning in one-fourth of an inch all around, folding and basting the edges

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together. Overhand the ends of the band. The whipping of the full part to the band will be sufficient to hold the two sides of the band together. Turn back the raw edges of the piece to be gathered one-half inch and gather once, twice or three times as desired. Pin to the band and overhand, taking a stitch for each pleat of the gathers. Fasten all bands very securely.

Bias.—A bias is a diagonal cut. To cut a true bias, fold over the corner of the cloth so that the warp and woof threads are parallel. A choice bias is a true bias, having the twill of the cloth at right angles to the cut. Great care should be taken in measuring and cutting bias strips to have them the same width throughout the length. Also avoid stretching after cutting.

a. To cut a bias facing, bias binding or fold, measure in the desired width on the true bias at a number of points. Draw a line, crease in a fold or baste where the facing is to be cut off.

b. To put on a bias facing, place the edge of the strip, right sides together, even with the edge of the cloth to be faced, baste and stitch. Turn the facing back *exactly* in the seam and baste along the edge so that the facing will not show on the right side. Turn the fold at the top, baste and hem. This process may be reversed for a right-side facing.

A bias facing for a curve should be cut narrow enough so that by stretching one edge of the facing it will lie perfectly smooth when finished.

c. To join two bias strips—Cut the ends to be joined straight with the threads of the cloth and place the right sides together, slipping the top piece past the under piece the width of a seam, but having the top edges even. Stitch where the facings cross, open the seam and crease; or, after trimming, a seam may be turned back at the end of each piece and the folded edges overhanded together.

Cloth.—A fabric woven of fibers, either animal or vegetable. The edges of cloth are known as the selvage, the threads running length-

wise the warp, and those crossing the warp from selvage to selvage the woof. The selvage should be trimmed off, as it is hard to sew through and draws up when wet.

Eyelets and Loops.—An eyelet is a small hole made and worked in a garment to receive a cord, stud or loop of a button. Punch the hole with a stiletto, pushing the threads apart rather than breaking them. Overhand closely from right to left with short even stitches. A large eyelet may be cut out and worked around with the buttonhole stitch. A blind loop is made in place of the eye to receive a hook. Put three or four long stitches in the same place beginning at the left, so that the thread will be at the proper place for working the loop with the blanket stitch.

Joining and Fastening Thread.—When sewing, care should be taken in joining threads. The manner in which it is done depends upon the stitch in use. In hemming, leave a half-inch of the old and a half-inch of the new thread, tuck both under the hem and continue hemming over the threads. The same plan is followed in overhanding. In the blanket stitch, feather stitch, herringbone, chain and buttonhole stitch the new thread must come out through the last stitch. Thoughtful attention should be given to the fastening of threads, as careful, painstaking work may soon be rendered useless by the loosening of the thread from the end. After fastening securely clip off all threads that the work may be not only strong, but neat. The usual fastening consists of several backstitches taken in the same place.

Mitered Corner.—Two hems crossing at right angles may be finished either with the square or the mitered corner. To miter a corner, turn and crease a quarter-inch fold on both sides. Turn the second fold of the hem the desired width on both sides and crease. Open out the corner and place a dot where the inner creases cross. Place a second dot a quarter of an inch from the first toward the corner. Through this second point draw a line passing from side to side, across the corner, being careful that the line is an equal distance

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from the corner on both sides. Cut off the corner on this line. Fold both hems again on the creases before made and pin the hem on one side in place. Make a pin hole as near the exact point where the hems cross as possible, passing through both hems. Fold in the bias edge on the hem that is not pinned down, *exactly from the pin hole to the corner*, causing the edges of the two hems to meet at an angle of forty-five degrees.

Patterns.—With the varied, complex and ever-changing styles of fashion, individual pattern drafting (except for a very simple article) is impracticable, usually resulting in commonplace garments and involving useless time and labor. For the trifling sum of ten of fifteen cents reliable, up-to-date patterns can be secured which are cut to established measurements by a fashion expert. A good needle-woman supplies herself with a good pattern and then cuts accurately, bastes carefully, and finishes neatly, and in nearly all cases, results will be satisfactory.

Plackets.—A placket is an opening made in a garment. There are several ways of finishing an opening, but in all cases, except when the gusset is used, the underside should extend some distance under the top to prevent gaping.

A. A PLACKET WITH A CONTINUOUS BINDING.

This is the placket used on children's drawers, night shirts, under garments, etc.

Cut the opening the desired length. Cut the facing with the warp a little more than twice the length of the opening and twice the desired width when finished, plus one-fourth inch, or more, allowed for seams. The following are the successive steps for making the placket:

- a. Fold the cloth, right sides together, in a line with the opening.
- b. Double the facing across the warp, through the center, wrong sides together.

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c. Slip this between the folds of the cloth so that the fold of the facing will just come to the end of the opening. This will bring the right side of facing to the right side of the cloth.

d. Baste the facing to the cloth down one side and up the other side of the opening.



TO ILLUSTRATE PLACKETS, NIGHTGOWN OPENING AND BANDS (FRONT VIEW)†

e. Stitch with an eighth of an inch seam, which will render unavoidable a small pleat at the end of the opening the width of the seam.

f. Crease the facing back over the opening exactly in the seam.

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- g. Turn an eighth of an inch fold the length of the facing down the other side.
- h. Fold this over the seam to the stitching, baste, and hem.
- i. At the top of the opening fold the right-hand facing back and stitch along the edge to hold in place.



TO ILLUSTRATE PLACKETS, NIGHTGOWN OPENING AND BANDS (BACK VIEW)

B. A PLACKET WITH AN EXTENSION HEM ON ONE SIDE AND A FLAT FACING ON THE OTHER.

This is the placket used on dress skirts, petticoats and carefully tailored garments.

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Follow the directions for the successive steps for making Placket A through "g," as the two plackets are the same to this point.

The left side of the facing will consist of an extension hem the same as in Placket A, the only difference in the plackets being the manner of finishing the right side or top facing.

h. After turning the fold the length of the facing, place the edge of this fold to the stitching on the other side of the seam, and crease the facing through the center the long way, as in Placket A.

i. As the right side is to be hemmed down as a facing, it is desirable to cut out one thickness of the cloth, leaving, of course, the quarter-inch inside the long crease, and also at the cross fold, at the end of the opening as the first fold on the facing.

j. Baste this facing flat to the cloth, and hem.

k. Stitch once across the *top facing only*, just at the bottom end of the opening.

C. A FINISH FOR A SHIRT SLEEVE OR NIGHTGOWN OPENING.

As this consists of an extra piece which extends over the opening, it is necessary to allow for this in cutting, so that the middle of this piece will come in the center when finished. When cutting this opening in a nightgown, cut to the right of the center one-half the width the facing is to be when finished. The following are the successive steps for making the nightgown opening:

a. Cut the opening the desired length. Cut the facing in two pieces, one a little more than twice the length of the opening, and the other the length of the opening plus the width of the facing, both pieces to be the desired width plus the allowance for seams. (These two pieces will be designated the long and the short facings.)

b. Place the short facing to the right-hand side of the opening, right sides of cloth together and even at the top. Pin in place.

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c. Place the long facing to the back of this same side with the right side of facing to the wrong side of the cloth, thus having the three thicknesses of cloth together. Pin in place and baste a quarter of an inch from the edge. Stitch an eighth of an inch seam.

d. The long facing is a continuous facing, the same as in Plackets A and B. Baste up the other side and stitch, the seam being on the right side of the cloth.

e. Crease both facings open in the seams. Turn in a fold on the other side of the short facing and turn the end to a square point.

f. Turn a fold the length of the long facing so that it matches the width of the short piece.

g. Baste the two facings together and the flat facing to the cloth.

h. Stitch around the short facing and twice across it at the end of the opening. Stitch or hem the under side of the flat facing.



FORMATION OF GUSSET.

D. THE GUSSET.

This method of finishing an opening is sometimes used on drawers and night-shirts instead of Placket A. The following are the successive steps for making the gusset:

- a. Cut the opening the desired length.
- b. Hem both sides with a very narrow hem running to a point at the end of the opening.
- c. Cut a piece of cloth one and one-half inches square. On this square fold down one corner three-fourths of an inch on the sides and cut it off. Turn a fold one-eighth of an inch all around

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this piece. Place the corner which is opposite the diagonal cut to the middle of this cut and crease.

d. To sew the gusset in, place the apex of the triangle to the end of the opening and overhand on the wrong side to the crease before made.

e. Fold over the remaining part to the wrong side, baste and hem. Stitch along the fold of the gusset to strengthen it.

Putting in Sleeves.—After trimming the arm hole, measure one inch back from the shoulder seam and mark with a pin. Fold the garment at the arm hole with this pin at the top of the fold and place another directly opposite it. Call this point A. Remove the first pin to avoid confusion. For a sleeve for an adult, measure from the shoulder seam five inches on the front and mark with a pin. Call this point B. Measure from the shoulder seam three inches on the back and mark with a pin. Call this point C. With the sleeve right side out place the under seam of the sleeve at A and pin together at this point. The gathers are to come at the top of the sleeve between B and C. For misses and children the measurements should be decreased proportionately. Measure the sleeve on the arm-hole and cut small notches at B and C. Gather the sleeve between these notches one-fourth of an inch from the edge, with a strong thread a little longer than the distance to be gathered. Put in a second gathering one-eighth of an inch from the first. Put in place at points A B and C; draw up the gathering threads to the proper length and fasten by winding around a pin. Arrange the gathers between B and C, pushing them a little closer together in front of the shoulder seam. Hold the inside of the sleeve next to you and, beginning at B, baste first around the plain part, then the gathered part. Stitch inside the basting and bind the seam.

The shirt sleeve is put in before the under-arm seam is stitched up and the sleeve seam is a continuation of the under-arm seam.

Seams.—A seam is formed by sewing together two pieces of cloth. There are several different methods of joining them. Those known as the raw seams may be joined by stitching, half-back stitching, over-

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handing or the combination stitch. The closed or finished seams are known as the French Fell, French Seam, Hemmed Seam, Flannel Seam and the Bound Seam. No garment should be finished with a raw seam, which is only properly used when covered with a lining, or as the first step in one of the finished seams.

A. FRENCH FELL.

Place the two pieces to be joined, right sides together, edges even and baste one-fourth of an inch from the edge. Sew with the combination stitch (or machine stitching) three-eighths of an inch from the edge. Trim three-sixteenths of an inch from the *under* side of the seam and crease the *upper* side of the seam over this. (In hand sewing there is a long stitch on the under side. Be sure to trim from this side so that the short stitch comes on the top.) On the right side of the garment crease carefully and baste along the edge of the seam to prevent the fullness which beginners are so liable to have over the French Fell on the right side. Turn to the wrong side, baste the seam flat to the cloth, and hem.

B. FRENCH SEAM.

Place together the wrong sides of the pieces to be joined, and baste one-fourth of an inch from the edge. With the running stitch sew one-eighth of an inch from the edge. Carefully trim off the ravelings, fold the right sides together and crease exactly in the seam, baste and stitch the seam, taking care that no ravelings can be seen and that the seam is perfectly smooth on the right side.

C. HEMMED SEAM.

This is used for joining thin material, lace, etc. On one piece fold an eighth of an inch seam (or more, if necessary) to the right side of the cloth, and on the other piece fold an eighth of an inch seam to the wrong side. Place the right sides of the two pieces together with the raw edge of one piece under and to the folded edge of the other. Baste this fold down over the raw edge sewing through the three thicknesses of cloth. Fold over in the crease and baste through the four thicknesses. Stitch, or hem by hand, along the edge of the seam on both sides of the cloth.

D. FLANNEL SEAM.

The flannel seam is used on material so thick that it is necessary to finish over a raw edge, instead of with a seam involving several thicknesses of cloth. Place together the right sides of the two pieces to be joined and baste one-eighth of an inch from the edge. Stitch one-fourth of an inch from the edge and remove the bastings. Trim the seams smooth, open and baste flat to the cloth. Herringbone stitch over the raw edge of both sides of the seam. One side of the herringbone stitch should come just over the raw edge of the flannel. The edges must be kept smooth, and unless the flannel ravel easily, the herringbone stitch should be not over one-eighth of an inch deep and close together. This stitch is used also on the flannel patch.

E. BOUND SEAM.

Seams may be bound with the two parts of the seam together, or they may be pressed open and bound separately. This may be done with a bias strip, binding ribbon or tape.

a. *Binding the Entire Seam*—Place together the two right sides of the pieces to be joined and baste one-eighth of an inch from the edge. Place the bias binding (three-fourths of an inch wide) with the wrong side of the cloth up and the edge of the binding one-eighth of an inch from the edge of the seam, and baste in place. Stitch through the three thicknesses of cloth a quarter of an inch from the edge. Turn in one-eighth of an inch on the other side of the binding and hem it down just above the stitching on the other side of the seam. This method of binding is used on the arm-holes of garments or wherever it is not feasible to open the seam and bind separately.

b. *The Open Bound Seam*—Prepare the seam as above without the bias binding. Trim and press the seam open. Double the binding ribbon through the center and crease. Place the raw edge of the seam to the fold of the ribbon and run along the edge, catching through to the under fold. Tape may be used for binding, but must be basted on first and hemmed down.

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Sewing on Buttons.—There are two important requirements for sewing on buttons—to put in sufficient thread, and to fasten this thread securely that it may not loosen from the end. In sewing flat buttons on coats, jackets, etc., place a small button on the under side and sew through it to avoid having the stitches show on the under side.

a. *The Loop or Shank Button*—Place the button in position with the loop at right angles to the edge of the cloth. Hold the button with the left hand and overhand the loop to the cloth. Pass the thread to the under side and fasten.

b. *Four-hole Button*—In sewing on flat buttons insert the needle from the right side and back in order to hide the knot under the button. Place the button in position and hold a pin across the button for the purpose of lengthening the stitches. Put in five or six stitches diagonally across the button and over the pin. Change the position of the pin and repeat. Slip the pin out, pass the needle through the cloth only, and wind the thread around the threads between the button and the cloth. Pass the needle through the cloth and fasten securely.

c. *Two-hole Button*—Place the button so that the stitches will come at right angles to the edge of the cloth, with the pin across the button. Proceed as with the four-hole button.

Sewing on Hooks and Eyes.—In sewing hooks and eyes on a garment it is best, where practicable, to cover the ends with the lining of the garment or with a piece of tape. In sewing them on the edge of a hem or facing turn the edge of the hem back over the ends of the hooks and eyes and hem it down. Where they are to be covered they should be strongly overhanded to the garment first. When covering is not feasible place the hook or eye in position and buttonhole around the top, beginning at the right-hand side and inserting the needle under and up through the hole, throwing the thread around the needle as in the buttonhole stitch. The hook should be sewed down at the point before breaking the thread. The worked loop is often used in place of the metal eye. For this purpose cut a stiff

pointed piece of cardboard the length of the desired loop and work the loop over this, when the cardboard can be easily slipped out. The loop is worked from left to right with the blanket stitch the same as the bar of the buttonhole.

Sewing on Lace.—When sewing lace to an edge always hold the lace next to you. Lace may be put on straight or gathered. At the top of most laces will be found a coarse thread woven into the lace for the purpose of gathering. Before drawing this up divide the lace and the edge upon which it is to be placed into halves, quarters or eighths, depending upon the length, and pin, with right sides together, at points of division. Then draw up the thread, arrange the gathers even, and overhand to the edge with fine even stitches. If the gathering thread is not in the lace, put it in and proceed as above. If the lace is to be put on plain hold it loosely to the edge and overhand.

A. SEWING LACE AROUND A CORNER.

When sewing the lace on plain to round a corner, overhand to a point as far from the corner as the width of the lace. (This point may be designated A, and a point an equal distance from the corner on the other side B.) From A measure on the lace twice its width and pin at the corner. Allow the same fullness on the other side and pin at B. Continue overhanding from B, leaving the corner until later, when the gathering thread will be put in, gathers arranged and the lace overhanded to the edge. If the lace is wide baste it in place at the corners before overhanding.

When sewing gathered lace to an edge, to round a corner proceed as above with this exception: The same fullness must be allowed on the corner that is allowed on the straight edge, in addition to that required to carry the lace around the corner without drawing. For example: If one-half the length of the lace is allowed for fullness on the straight edge, at the corner allow two and one-half times the width of the lace instead of twice its width.

B. SEWING TWO ENDS OF LACE TOGETHER.

The manner of sewing two ends of lace together will depend upon the kind of lace to be joined, the pattern, strength, etc. The first

DESCRIPTION OF STITCHES

aim to be considered is to have the joining strong enough so that it will not pull apart. The second is to join it so that it will show as little as possible. Several methods are suggested:

a. Lace made up of units can be easily joined by overhanding these units together.

b. If the pattern permits, cut the lace with the pattern, lay one edge over the other and buttonhole over each raw edge with fine thread.

c. Sew the lace right sides together, in a narrow seam. Lay the seam flat and buttonhole over the raw edge and at the same time down to the lace.

d. Turn a narrow fold on one piece to the right side and on the other piece to the wrong side, slip one under the other and hem down the two edges as in the hemmed seam.

Tucking.—Crease the first tuck where desired. For the second tuck measure from the first and allow twice the width of the tuck plus the desired space between. Repeat for the successive tucks.

Putting a Ruffle into a Hem-Tuck.—This makes an excellent finish for the bottom of petticoats and drawers. Measure up from the bottom twice the width of the desired hem plus one-fourth of an inch for the seam and crease for a tuck. Stitch the tuck. This will leave the raw edge extending one-fourth of an inch below the edge of the tuck. Place the ruffle along this edge, wrong sides together, and baste in a quarter inch seam. Baste the tuck over the seam and stitch along the edge.

CHAPTER VIII.

TEXTILE FIBERS AND FABRICS.

The fibers used in the manufacture of cloth are of two different natures, vegetable and animal.

The vegetable fibers may be divided into three distinct classes:

1. The cotton having soft, lint-like fibers, one-half to two inches in length, is obtained from the seed-pods, called "bolls."
2. The fibers from flax, hemp and jute are flexible and of soft texture, ten to one hundred inches in length.
3. The hard or leaf fibers, including manila, sisal, istle and the New Zealand fibers, all having rather stiff woody fibers, one to ten feet long, are obtained from the leaf or the leaf stem.

The animal fibers are obtained from the wool bearing animals such as common sheep, Angora and Cashmere goats and the hair of the camel.

The silk fiber is obtained from the cocoon of a caterpillar.

SILK.

Silk is the most beautiful of all fabrics. It is made from the fiber produced by the silk-worm which is a species of caterpillar. So perfectly does this little worm do its work that no spinning is required. This fiber, placed under a microscope, looks like a glass thread. It is the light playing along this smooth surface that gives to silk its beautiful luster.

Silk first came to Europe from China where the industry had been cultivated for many centuries. It is said this was begun by a woman, the wife of an Emperor, in the year 2600 B. C., and the culture of the mulberry, upon the leaves of which the silk-worm feeds and thrives, forty years later.

Several unsuccessful attempts have been made to introduce the cultivation of the silk industry into the United States. As the business requires a large amount of cheap labor for a short time during the

year, it has not as yet been found profitable. Machines are of little use, except in reeling the silk.

The moth lays its eggs, about five hundred in number, in August or September, and they hatch the following May, just at the time the mulberry comes into leaf. These little caterpillars are hatched and fed in-doors, and they eat like hungry school-boys for a month or more, until they are about three inches long. At this period they sicken and cast their skins, after which they begin eating as eagerly as ever. In about a month, however, the worms stop eating altogether, crawl up on the twigs which are placed on large trays, and begin to spin their cocoons. There are two little openings in the head of the worm, from which comes two thread-like substances resembling glue, from which the silk is made. These stick close together and form a flat thread. The silkworm by moving its head about, wraps this thread around its body, wrapping from the outside inward, until it has completely inclosed itself in this silken blanket. Then it goes to sleep. If left to itself it would in two or three weeks bore its way out of this silky covering and come forth a feeble white moth. But as the cutting of this hole in the cocoon injures the fibers, only just enough for the next year's crop are allowed to come out. The rest are stifled in a hot oven.

After the outsides of the cocoons are removed they are placed in hot water which softens the gum that is in the silk so that it can be wound off on reels. The silk fiber is all in one piece, and about one thousand feet long. There is always a portion of the cocoon which is too tangled to be wound, and it is made into what is called spun silk. Spun silk is carded like wool. The removal of the natural gum, by boiling in strong soap suds, effects a considerable loss in weight, the cleansing process, however, causing it to take on very beautiful tints. This loss has led to the weighting of silk by mixing cheaper materials with it.

An artificial silk is made from the fiber of the ramie plant which grows in China and Malay. This is sometimes known as China silk. Mercerized cotton has also been treated so as to very successfully imitate silk.

S E W I N G

COTTON.

The Plant.—Cotton is one of the most important vegetable fibers, distinguished from all other fibers by the peculiar twist it possesses which makes it especially adapted to spinning. It is cultivated between the twentieth and thirty-fifth parallels north of the equator. This is known as the cotton belt. Within this belt lie the cotton districts of the United States, Northern Mexico, Egypt, Northern Africa, Asia and India.

Although cotton is cultivated mainly for the fiber surrounding the seeds, its by-products, the seeds and stalks, are of great commercial importance, being manufactured into oil-meal, oil cakes, cottolene, etc. There are about fifty species of the cotton plant but only a few are cultivated, the best known and most commonly used being the "American Upland," which is now cultivated in many parts of the world. The two varieties grown in the United States are the "Sea Island" and the "Upland." The former is much more valuable because its fiber is longer. It is cultivated on the islands and low-lying coasts of South Carolina, Georgia and Florida. The latter, while not so valuable, furnishes most of the crop and is grown over a wide area.

The plant grows from seven to ten feet high. The leaves are sprinkled with small black dots. The hollyhock-like flowers are white and yellow when they first open, but two days later they turn a dull red. Surrounding the flowers are three or four cup-shaped green leaves which together are called squares. These remain after the petals have dropped, to serve as a protection to the bolls.

Cotton thrives best in a rich, deep soil with a hot, steamy atmosphere. It should have plenty of moisture while growing and a dryer period during the ripening and gathering of the crop. The most of the cotton crop is planted by the twentieth of May. Six weeks after it begins blossoming the first bolls are ready for picking. This is done by hand, and as the bolls do not all ripen at the same time, it is necessary to go over the field many times, and the picking often lasts until the middle of December. The cotton is gathered into baskets hung from the shoulders of the pickers.

The Preparation of the Fiber.—After the cotton is picked it is taken to the gin which separates the fiber from the seed. Until the cotton gin was invented in 1793, by a Connecticut teacher, then living in Georgia, the cultivation of cotton was not profitable, as one person could only clear the seeds from five or six pounds a day. This machine has revolving teeth which drag the cotton between parallel wires, leaving the seeds behind. With this machine a slave could clean about a thousand pounds in a day. This gave a wonderful impetus to the cotton industry, and its cultivation increased enormously.

After the seeds are removed the cotton is put up into bales weighing about five hundred pounds each, and is then ready for shipping. When these bales are received at the factory the cotton is so closely matted together that it must be broken up or loosened. This is done in the blending room where it is first run through heavily weighted and spiked rollers which pull the cotton apart. It is then blended or mixed to make it of uniform quality. After this it is taken to the carding room. Here the fibers are drawn parallel to one another and bits of leaves and unripe fibers removed, when it is put through the drawing frame, consisting of a pair of rollers. These parallel, untwisted fibers are now called “slivers.” From the drawing frame these “slivers” go to the slubbing machines where it is lightly twisted and wound on bobbins. This process is repeated on similar machines each one drawing the thread out and twisting it a little more, until it is finally ready for spinning.

Spinning.—Two systems of spinning are in use at the present time, ring spinning and self-acting mule spinning. The former is done mostly by women and children, and produces a hard, round irregular yarn. The latter machines, operated only by men and very strong women, are complicated, but produce an exceedingly soft and fine yarn.

The thread used for sewing and for the manufacture of lace is made by twisting several fine threads together. Sewing thread is usually composed of from six to nine threads spun separately and

then twisted into one. Thread is sometimes passed very rapidly through a flame which burns off the fuzz making it very smooth.

Weaving.—Three operations are necessary in the manufacture of cloth: First, the separation of the warp threads on the loom, so that the shuttle containing the woof can pass through. Second, the movement of the shuttle, back and forth, among the warp threads. Third, the beating up the woof.

FLAX.

The fibers of flax are spun and woven into a fabric called linen. This is one of the most ancient industries known to man. Linen is often mentioned in the Bible and the ancient Egyptians wrapped their mummies in this fabric. It is said that the finest linen of the present day looks coarse beside that from the Egyptian looms in the days of the Pharaohs. The Hebrew and Egyptian priests wore garments made of this fine linen.

The Plant.—Flax grows from two to three feet high, and has a blue flower. A field of flax in blossom is very beautiful.

While it is grown extensively in many parts of Europe, Asia and America, the soil and climate of Ireland, France and the Netherlands are especially adapted to its growth, and it is in these countries that it reaches its greatest perfection.

The fiber of the bark is the part of the plant used in the manufacture of cloth. Linseed oil is expressed from the seed.

The Preparation of the Fiber.—When the plant is ripe it is pulled up by the roots and beaten to loosen the seeds which are then shaken out. Next the stems are steeped in soft water and afterward allowed to ferment. They are then dried and passed between fluted rollers which breaks the woody part of the stems which are again beaten to remove this woody part from the fiber. The fiber is then made into bundles and sent to the mill to be spun, where it is first roughly sorted, the longest and best portions being separated from the short raveled ones. These inferior portions are called "tow."

The treatment of the flax fiber for spinning is similar to that of the cotton (page 99), being drawn and twisted and drawn out again, repeating this process several times.

Spinning.—Coarse and heavy yarns are spun dry, but fine yarn must be spun wet. Some varieties of velvet and velveteen are made from linen. Much of the so-called linen cloth of the present day is mixed with cotton or jute. The principles of weaving are the same as that of the cotton. See page 98.

For many centuries the weaving of linen was conducted as a household industry. The first attempt to manufacture it on a large scale was in England in 1253. It is now one of the national industries. Linen is bleached after it is woven. In the olden times it was spread upon the grass, or lawn, and the action of the sun, air and moisture whitened it, and for this reason it was called "lawn," and it is still so designated. In the modern process of bleaching, the linen is first singed by being passed rapidly over hot cylinders which makes the cloth smooth. It is then boiled in lime water, washed and afterwards scoured in a solution of sulphuric acid, exposed to the air for a time and again scoured. Lastly, it is boiled in soda-lye water and dried over hot tin rollers. The gloss on linen is made by first mangling, then starching, and finally running it between heavy rollers.

Linen is chiefly manufactured in France, Belgium, Germany, England and the United States. France is noted for the finest kinds of lawn and cambric, while Ireland excels in the production of table linen. The largest portion of the sheeting and toweling is made in Scotland. The linen manufactures of the United States consist principally of toweling and twine.

WOOL.

Wool is the fleecy covering of sheep. It is distinguished by its waviness and the scaly covering of the fibers. The scales are more pointed and protrude more than those of hair. This gives it a tendency to mat or felt. The waviness of wool is due to the spiral structure of the fibers. Next to cotton, wool is the most extensively used of all the textile fibers.

The Romans developed a breed of sheep having wool of exceeding fineness, and later introduced their sheep into Spain. Here they were still further improved, and it was not many years until Spain led the world in the production of wool. The fine woolled Merino sheep originated here. Australia and the United States are also great wool-producing countries.

Classification.—There are three classes of wool, classified according to the length, fineness and felting qualities:

1. The carding or clothing wool.
2. The combing or worsted wool.
3. The blanket or carpet wool.

Wool on different parts of the same animal varies greatly, that on the shoulders being the finest and most even. All unwashed wool contains a fatty or greasy matter called yolk or suint. This keeps the fiber from matting together and also protects the fleece from injury. The yolk must be removed before the wool is manufactured into cloth. When the fleece is cut from the body of the sheep it sticks together so that it can be spread out like the hide of an animal, and each fleece is tied in a separate bundle. A few years ago sheep shearing was done by hand. This was a busy time, especially on large ranches where thousands of sheep were to be sheared and it required a large crew to do the work. It is now accomplished with much less time, labor and expense by machinery.

Alpaca and Mohair are classed as wools, but the former is produced by the Alpaca goat and the latter by the Angora goat. Cashmere wool comes from the Cashmere goat, found in Thibet, and is very costly, as only the finest parts of the fleece are used. In the far eastern countries beautiful, costly fabrics are made from the long hair of the camel.

Preparation.—When wool comes to the factory in the raw state it must be scoured. This is done by passing it through machines containing strong soap suds, and afterwards rinsing it. After the wool is dry it is mixed or blended. Mixing is an operation of great importance and is done to make the wool of uniform quality. Portions

of wool from different lots, qualities and colors are placed in alternate layers and blended. If it is desired to mix other materials with the wool, such as silk, cotton or shoddy, it is added at this time.

The wool is harsh to the touch after it has been scoured, owing to the removal of the yolk. To restore its natural softness it is slightly sprinkled with oil during the process of mixing.

Carding and Spinning.—The process of carding produces a thread having fibers projecting loosely from the main thread in little ends which form the nap of the finished cloth. After it is carded it is wound on spools and is ready for the spinning. In spinning the threads are held together by their scales and the waviness of the fiber which prevents them from untwisting. Another valuable feature of wool is its elasticity, which makes it soft to the touch and this is retained in the manufactured goods.

Woolens.—There are two classes of woollen textiles, woolens and worsteds, depending upon the character of the fiber used, and the treatment to which it is subjected. The shorter varieties of wool are used in woolens, while the long fibers are combed out and used for the worsteds. In making woollen yarns the wool is simply carded and very loosely spun, but in making worsted thread the wool is combed out and hard twisted. Owing to the nap of the woollen goods the weaving is scarcely visible, but in the manufacture of worsteds the weave is evident and a great variety of designs is possible.

A variety of effects can also be produced by the character of the finish. Among the principal varieties are:

1. The dress face finish, such as broadcloth and beaver.
2. The velvet finish.
3. The Scotch or Melton finish.
4. The bare face finish, which has the nap completely sheared off.

While the finish may differ, the general treatment of the cloth is practically the same. The first step is called pulling, when the cloth is soaked in hot water and pulled by a pulling machine. It is soaked, pulled and beaten until it is only half its original length and breadth.

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It is then rinsed and stretched on a frame where it will dry without a wrinkle. At this time the nap is raised by beating the cloth with the spike head of the teasel plant or its substitute. The pile or nap is then trimmed so as to present a uniform surface, when it is wound tightly around a huge drum and immersed in hot water. Finally it is pressed in a hydraulic press, during which time steam is forced through it. This is to give solidity and smoothness to the cloth and also to add luster to the finished fabric.

CHAPTER IX.

COSTUME

DRESS AND ITS RELATION TO ART

Art education should bring to every girl a greater appreciation of beauty and a sufficient knowledge to enable her to beautify her home and to dress herself becomingly. This is the real "applied art" or "applied design" of which we have heard much but seen little.

The power and skill necessary to originate an intricate and artistic design, and a technical knowledge of color-blending are worth something to the individual, but the ability to apply this knowledge later to the decoration of her home and to the selection of her own clothes is of vastly greater importance.

An artist who paints the human figure, draws and erases and draws again, and yet again, that the contour of the form he creates may be right in proportion and graceful in line. He studies his coloring, he compares, rejects and blends for a particular shade or tint that makes for complete harmony. No discordant note of color nor turn of line that detracts from the beauty of the whole is allowed. And there are artistic makers-of-garments who put into the costumes they create the same thought and care that the artist spends upon his canvas, but the prices of both are within the reach of very few. Nearly every woman must plan her own wardrobe and choose the furnishings for her home and this is what "Art" and "Domestic Art" in the public schools should train the girl of to-day—the woman of the future—to do.

CHARACTER AND CLOTHING.

Clothing was first designed in the early ages, no doubt, as a covering and protection to the body; it has come, however, to mean something more than this. It is an expression of the character, the nicety of taste—or lack of it—the discrimination and judgment of the in-

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dividual. In the selection of one's garments there are a number of points which must be taken into consideration, such as health and comfort, cost, fitness, color and style, as well as beauty. And above all, the average woman must pause and consider last season's garments, that are too good to be discarded and must form a part of this year's wardrobe. It is quite disastrous to plunge ahead and buy a blue dress, because blue happens to be stylish, if the hat to be worn with it is a green or brown "left over."

While a due regard to the opinions of others demands a certain conformity to the customs of the time and place in which one lives, there is always a latitude allowed which enables one to exercise individual needs, taste and preference.

Health and comfort should take rank before everything else. A style which interferes with either is an absurdity which anyone of good sense will avoid.

Neatness should be considered above beauty or style. A soiled collar, hooks, eyes and buttons missing, gloves out at finger ends, shoes dusty and unpolished, braid hanging from the skirt, the waist and skirt separated are all accidents which may befall anyone, but are most deplorable when they become chronic.

It has been wisely said that the best dressed woman is she of whose clothing one is unconscious, whose dress is neither conspicuous from extreme style nor too noticeable from a total disregard to the custom of the times. Good taste demands that one be not overdressed. Street and business suits and young girls' school dresses should be plain, well made and neat, of subdued and becoming color.

ECONOMY AND DRESS.

"Costly thy habit as thy purse can buy," wrote Shakespeare, and the advice still holds good. Economy does not consist, however, of buying cheap, shoddy material. Trimming can be dispensed with to the improvement of the average garment, but a dress made of good cloth will outwear, look better, give greater self-respect, and in the end cost less than several dresses made of cheap stuff, as the cost of

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making is no more for the one than the other. This is a principle that applies as well to underwear. Simple garments, well made of firm fine cambric are much to be preferred to those overtrimmed with cheap lace and sleazy embroidery.

DISCRIMINATING TASTE IN DRESS.

Some colors and styles are becoming to certain complexions and forms and are quite the reverse to others. A short stout person should avoid plaids, while one overly tall should never select stripes. The lines of the garment are equally important—any method of trimming that gives length, the long lines of the “princess” and the “empire” styles are a boon to the short figure, while the overskirt, the deep flounce, and the bands of trimming running around the skirt, all help to break the long lines for the tall woman. Belts that by contrast divide the figure are not good unless one wishes to shorten the height. Waists and skirts of the same color usually have more style and give better form.

Give careful heed to the selection of color, not only to the dress but to the accessories, hat, gloves, collar, belt and shoes, as well. In fact, consider the costume as a whole made up of parts, each one of which must harmonize with every other.

Before sewing machines were to be found in every home and ready made clothing in the stores styles did not change so rapidly. Commercial conditions now make it to the advantage of a great army of people that the styles in dress change often and radically. The manufacturers of cloth, the wholesale merchants with their agents, the retailers and their numerous clerks, wholesale garment-makers and their many employes, pattern-makers, dress-makers, milliners and the manufacturers of all minor articles of clothing are all benefited by this oft recurring change in style. This condition has come about so gradually that we hardly realize to what extent we are victims of trade-tricks. It is not necessary nor desirable that woman should enslave herself to follow all the vagaries of style.

CHAPTER X.

BASKETRY.

Basketry is one of the oldest handicrafts known to man, but it reached its greatest excellence with the tribes of American Indians who wove baskets from the grasses, reeds and rushes which they gathered as they wandered from place to place in their nomadic life. These materials were colored with dyes made by cooking the bark of certain trees and the roots and bulbs of plants, a knowledge of which was handed down from mother to daughter.

The designs were not meaningless, but represented by symbols their prayers to the Deity for rain, success to a war party, or a petition for favorable crops. Or it might be they chronicled the victory over a hostile tribe, a maiden's love for a stalwart brave, or a thousand other events of their lives in conventionalized symbolic form. The shape, size and use varied as much as the design.

The material used by the Indians is not available for us but imported raffia, rattan and rushes form excellent substitutes. Raffia, a product of the Island of Madagascar, is a soft, pliable, yellowish fiber growing next to the bark of a species of palm tree. Rattan is the product of a kind of palm which grows in India. It is stripped of leaves and split into round or flat strips of different sizes.

A more instructive occupation cannot be found for children than basketry and its allied subjects. It not only is fascinating in itself, but develops patience, judgment, dexterity and skill, and embodies the satisfaction of making a beautiful and useful article. It is not only an educative occupation for school, but for the home as well.

Baskets are known as the woven baskets made of the round or flat rattan and the sewed baskets made from the raffia and reeds.

GENERAL DIRECTIONS FOR MAKING THE COIL BASKET.

Preparation of Materials.—Round reeds are sold in sizes from the very fine Number 0 to the coarse Number 8. Hemp cord of different sizes may be substituted for the reeds if a flexible basket is desired.

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Beginning about two inches from one end of the reed, sharpen to a flat point. Coil the other end, leaving ten or fifteen inches uncoiled, and tie with raffia two or three times. Soak the reeds in water until very pliable, then remove and wipe dry before using. The raffia may be used wet or dry as one prefers. It may be used in coarse strands for the large baskets or split to any size desired for the finer stitches,



- 1 2 3 4
- BEGINNING A BASKET IN ANY WEAVE.
- 1 — The reed sharpened to a flat point.
 - 2 — The end of the sharpened reed wound with raffia.
 - 3 — The end of the reed curled into a small "button."
 - 4 — Splicing reeds by cutting both to a flat point.

but should be kept uniform. The basket sewing requires either the sharp or blunt tapestry needle, varying in size between Number 18 and Number 22. Thread the end of the raffia that has been cut from the tree into the needle, thus working with the fiber, as it is less liable to split. Much of the beauty of the basket will depend upon the smoothness and neatness of the work.

Beginning the Basket.—Baskets may be classified as round or oval.

B A S K E T R Y

reeds may then be caught together by the stitch selected for the basket, or the "Navajo" or "figure eight stitch" may be used and the other stitch introduced on the second round.

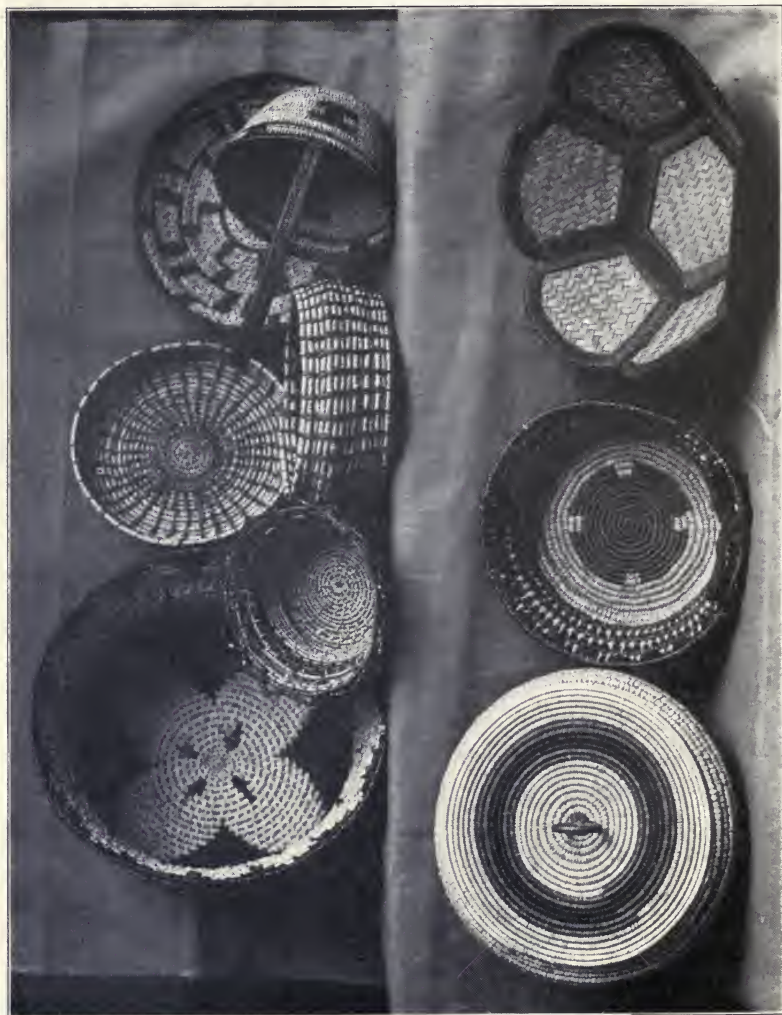
Splicing the Reed.—As the reed naturally coils somewhat, take care to splice it so that the coil in the two pieces remains the same; otherwise it would draw apart. Sharpen the top side of one reed and the underside of the other to a long flat point and slip one past the other until the two together form the uniform size of the reed. It is sometimes advisable for a novice to wind the spliced reeds with fine thread, but experience will teach one to do the splicing with the sewing of the basket.

Splicing the Thread.—When a new thread is needed lay the end of the old thread along the reed and place the new thread over it, and by a sharp turn in the thread, wind once or twice over both, and continue the stitch as before. When the ends are firmly fastened clip them off.

Shaping the Basket.—Coiled basketry admits of the greatest variety in shape and size, from the simple table mat to the exquisitely beautiful jar and vase forms, while the stitches lend themselves to an endless variety of design ranging from the simplest to the most intricate patterns.

It is well to have in mind the shape and design before beginning the basket, as haphazard work is not apt to be satisfactory. Baskets can be easily shaped to any desired form, as this depends entirely upon the position of each succeeding reed upon the one below it.

Introduction of Color.—All reeds in the coiled basket are wound twice with the raffia. It is important to keep this in mind when putting in designs. The colored raffia is introduced in the same manner that the thread is spliced, by laying it along the reed and sewing over it. When working out designs in color do not cut the thread when changing from one to another, but lay the thread not in use along the reed and sew over it, bringing it out when ready to use it again.



GROUP OF BASKETS SHOWING VARIETY IN SIZE, SHAPE AND DESIGN.

B A S K E T R Y

As an aid in dividing the space for a design a piece of paper may be cut and folded into the desired number of sections, and these marked on the basket. These spaces are then filled in without regard to the exact number of stitches required to cover the reeds.

Beginners should make a study of Indian baskets and their designs.



BASKET SHOWING THE NAVAJO WEAVE.

Finishing the Basket.—Cut the end of the reed to a flat point two inches in length, and gradually taper the stitching off so that it shows where it ends as little as possible. The last two rows of the basket might be stitched with colored raffia unless it detracts from the design.

DESCRIPTION OF BASKET STITCHES

The stitching proceeds along a continuous coil, so that each stitch is passed beneath the stitches of the coil beneath.

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For convenience in analyzing these stitches the two reeds may be designated as the loose reed and the fastened reed.

The Navajo Stitch (Figure Eight).—Hold the commenced coil in the left hand which will cause the work to proceed from the right toward the left.

(a) Pass the thread between the two reeds *toward* you, (b) over the loose reed *from* you, (c) between the two reeds *toward* you, (d)



BASKET SHOWING THE LAZY-SQUAW WEAVE.

down between the stitches of the fastened reed *from* you, and beginning again at (a) pass the thread between the two reeds toward you completing the figure eight. Draw the two reeds firmly together.

This is the stitch used by the Indians in making the baskets which they ornamented with feathers, wampum, shells and beads.

The Lazy-Squaw Stitch.—This stitch is made up of two parts, a long and a short stitch.

BASKETRY

Hold the commenced coil in the left hand and work from right to left. (a) Wrap the thread toward you *over* and *around* the loose reed once, (b) then *over* the loose reed again, (c) and down *from* you between the stitches of the fastened reed and back to (a). This completes the long-and-short stitch.



BASKET SHOWING THE MARIPOSA WEAVE.

The story of the origin of the name "Lazy-Squaw" stitch is interesting. If the squaw was inclined to slight her work she would wrap the loose reed several times before taking the long and more difficult stitch which bound the two reeds together. She would then receive from her companions the ignominious title of "lazy-squaw."

As a modification of this stitch the wrapping of the loose reed is omitted, and the long stitch only is used. This passes each time between the stitches of the coil beneath.

The Mariposa Stitch (Knotted).—In analyzing this stitch we find that it is made up of three parts. It is the same as the Lazy Squaw Stitch with the addition of the knotted effect obtained by passing the thread around the long stitch.

Hold the commenced coil in the left hand and work from right to left, (a) Wrap the thread toward you over and around the loose reed once, (b) then over the loose reed again, (c) and down *from* you between the stitches of the fastened reed, thus binding the two reeds together, (d) bring the needle up *between* the two reeds at the left side of the long stitch, (e) cross over this stitch, going down between the two reeds at the right of the long stitch. Bring the thread over the loose reed and begin wrapping again as at (a).

The Samoan Stitch (Lace Effect).—Baskets that are to be lined are very pretty made of this stitch. It is also very effective combined with other stitches, or as the finishing coil of a basket.

The Samoan Stitch is a modification of the Mariposa Stitch, the only difference being in the space between the reeds and the passing of the thread around the long stitch two, three or more times, which gives the lace effect. The reeds *must* be held firmly, however, and the thread passed around the long stitch times enough to make the basket firm.

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