

**SCIENTIFIC SEWING
AND
GARMENT CUTTING**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649461011

Scientific Sewing and Garment Cutting by Antionette Van Hoesen Wakeman & Louise M. Heller

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

ANTIONETTE VAN HOESEN WAKEMAN & LOUISE M. HELLER

SCIENTIFIC SEWING AND GARMENT CUTTING

SCIENTIFIC SEWING
AND
GARMENT CUTTING

For Use in Schools and in the Home

BY
ANTOINETTE VAN HOESEN WAKEMAN
AND
LOUISE M. HELLER



SILVER, BURDETT & COMPANY
NEW YORK BOSTON CHICAGO

PREFACE

THIS work on *Scientific Sewing and Garment Cutting* owes its publication to the constant and increasing demand for information in regard to the system which it explains. This demand has been created by the unqualified success of this form of manual training in the school where it has been taught, substantially as here set forth, for the past six years.

Since it is not a theory reduced to possible practice, but the exposition of a system that has been productive of the most excellent results, it is given to the public in the confident belief that it will serve a useful purpose.

PUBLISHERS' NOTE

It will be noted in connection with the diagrams presented in this book, that the authors have indicated lines by a single letter. This is for conciseness; and no confusion need arise if the general scheme of the parallelogram be borne in mind, which in every case has for its base line *A*, its left-hand side *B*, the upper line *C*, and the right-hand side *D*. In the more complex figures arrows are used to designate the direction of the lines.

The publishers are permitted to announce that worked models described in this book may be obtained by addressing Miss Louise M. Heller, 293 South Oakley Avenue, Chicago, Illinois.

CONTENTS.

	PAGE
Introduction	9
Clothing and its Uses	12
Color	13
CHAPTER I.	
OUTFIT FOR SEWING DEPARTMENT.	
General Description of Outfit	17
CHAPTER II.	
FIRST GRADE WORK.	
Preliminary Remarks. —Time occupied by this grade.—The value of correct habits.—Condition of the hands before beginning to sew.—Correct position	21
The First Model. —Material.—Size.—The kind of needle to be used.—The thimble.—Why the thimble is placed on the second finger.—The emery.—The length of the thread.—How work is done.—How the thread is drawn.—Care of implements and models	23
Basting. —How basting is done.—How work is held	26
The Backstitch. —How it is taken	27
Overhanding. —The doubling of the model.—What the two sides of the model represent.—How the stitch is taken	28
Hemming. —The lines and spaces.—A standard of taste	29
The Flannel Stitch. —How it differs from other stitches.—How it is done.—What it resembles when finished	29
Blanket Stitch. —How the first stitch is taken.—The thread kept under the needle.	30
Second Model. —Material.—Size.—The warp and weft of cloth.—Preparation of the model.—Width and length of cloth.—Where the work is begun	31
The Second Design. —Of what it is composed.—How each line is done	33
Third Design. —The flannel stitch and two lines of hemming.—How it is placed	34
Finishing the Model. —Repeating the design.—The fringe	35
Questions for Review	36
Materials and their Manufacture—	
Wool	38

CHAPTER III.		
SECOND GRADE WORK.		PAGE
Preliminary Remarks. — Model for one year's work.— The stitches		41
The Model. — Material.— Size of model.— Preparation of model.— Limit of designs.		42
First Design. — Where placed.— Thread used		43
Second Design. — Of what composed.— Where placed		44
Third Design. — Stitches used.— Lines and spaces		45
Fourth Design. — Spaces and stitches.— Stemstitch		45
Hemstitching. — Drawing the threads.— How the stitch is taken.— Hemming the edge of the model		46
Joining and Finishing the Model. — Depth of overhand stitch.— Facing the model.— Finishing the top of the model.— Putting in the draw-string		47
Questions for Review		49
Materials and their Manufacture—		
FLAX		50
THIMBLES		52
CHAPTER IV.		
THIRD GRADE WORK.		
Preliminary Remarks. — Practice with scissors.— Drafting model.— How the case is formed from the parallelogram.— The linen hem.— Finishing model		54
Second Model. — Material.— Drafting and cutting.— How prepared.— Two kinds of darning.— Use of different darns		58
Third Model. — The knitted darn.— How it is done.— For what it is used		62
Questions for Review		64
Materials and their Manufacture—		
COTTON		64
CHAPTER V.		
FOURTH GRADE WORK.		
Preliminary Remarks. — Introduction of the knot.— The apron.— Fancy silk bag		68
First Model. — Material.— Size and form.— Gathering.— Finishing the puff		68
Second Model. — Buttonholes in felt.— Buttonholes in cloth.— Hooks and eyes		70
Third Model. — The gingham apron.— Drafting and cutting pattern.— Cutting and making apron		71
The Silk Bag. — Cutting and making		73
Questions for Review		74
Materials and their Manufacture		
SPOOLS		75
THREAD, AND THE MANUFACTURE OF COTTON		76

CHAPTER VI.

WORK OF THE FIFTH GRADE.

	PAGE
Preliminary Remarks. —The four models of the grade	80
The First Model. —Size and material.—Turning of the hem.—Hemstitching.— Marking	80
Second Model. —Fancy sewing apron.—Drafting, cutting, and making	81
Third Model. —Underdrawers.—Taking the measures.—Drafting the pattern.— Cutting drawers.—Putting together and making	84
Fourth Model. —The tear darn.—How the model is prepared.—How the darning is done.—Review of all the darning	90
Questions for Review	91
Materials and their Manufacture—	
HOW SILK IS MADE	92
THE MANUFACTURE OF SILK	94

CHAPTER VII.

SIXTH GRADE WORK.

Preliminary Remarks. —Cutting garments without chart.—Little fitting needed.— Taking the measures and drafting the patterns	96
Child's Underwaist. —Taking the measures.—The parallelogram.—Drafting the pattern.—Cutting the pattern and the waist	97
Underskirt with Shoulder Straps or Waist. —The measures.—The materials used.— Putting together and making	103
Questions for Review	105
Materials and their Manufacture—	
HOSIERY	106
FELT	107
PRINTED FABRICS	108

CHAPTER VIII.

SEVENTH GRADE WORK.

Preliminary Remarks. —The setting of a patch.—Ease with which perfect work is accomplished	109
The Gingham Patch. —Size of model.—Cutting and setting of the first patch.—The second patch.—The third patch.—The fourth patch.—The fifth patch.—The sixth patch	109
Child's Dress. —The waist and skirt.—The sleeve.—Measures, drafting and cutting.— Putting together and making	115
Boy's House Waist and Kilt Skirt. —The measures and drafting.—The sleeve.— The skirt.—Putting together and making	118

	PAGE
Knee Trousers. — The measurements.— Drafting the pattern. Cutting.— Making.—	
Pressing and sponging	119
Questions for Review	125
Materials and their Manufacture —	
NEEDLES	126
EMERY	127
PINS	128

CHAPTER IX.

EIGHTH GRADE WORK.

Preliminary Remarks. — The graduating dress.— Other work of the grade	131
The Linen Patch. — Quantity of material.— Preparing the model.— Setting the patches.— The loop.— The eyelets and initials	132
Infant's Outfit. — The flannel band.— The shirt.— The pinning blanket.— The flannel skirt.— The cambric skirt.— The wrapper.— The sack.— The dress	135
Girl's Waist. — The measures.— Drafting.— Cutting	143
The Sleeve, Skirt, and Review Work. — Drafting and cutting of the sleeve.— The skirt.— Last work of the grade	148
Questions for Review	149
Materials and their Manufacture —	
SPINNING AND WEAVING	150