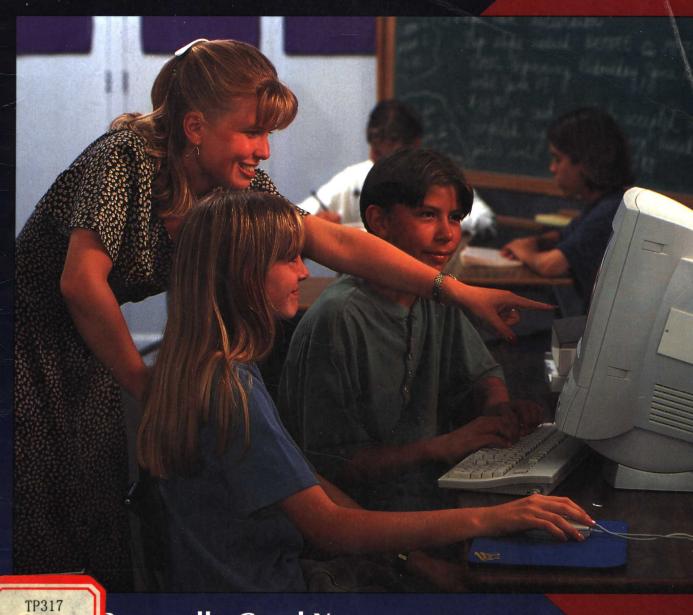
A Mac for the Teacher

ClarisWorks® Version Second Edition



Brownell Carol Youngs

B877

TP3,7/B87)=2

A Mac for the Teacher: ClarisWorks® Version Second Edition

Gregg Brownell

Director of Clinical and Computer Labs College of Education and Allied Professions Bowling Green State University

Jan Metzger

Director of Technology Maumee City Schools

Carol Youngs

Coordinator, Computer Services Washington Local Schools

Nancy Brownell

Department of Educational Curriculum and Instruction Bowling Green State University **Production Credits:**

Cover image: © David Young-Wolff/PhotoEdit

Interior text design: Roslyn M. Stendahl, Dapper Design

Copyeditor: Kathy Pruno

Index: Schroeder Indexing Services

Composition: Carlisle Communications, Ltd.

Claris is a registered trademark of Claris Corporation.

ClarisWorks is a trademark of Claris Corporation.

HyperCard and HyperTalk are registered trademarks of Apple Computer, Inc.

HyperStudio is a registered trademark for Roger Wagner Publishing, Inc.

WEST'S COMMITMENT TO THE ENVIRONMENT

In 1906, West Publishing Company began recycling materials left over from the production of books. This began a tradition of efficient and responsible use of resources. Today, 100% of our legal bound volumes are printed on acid-free, recycled paper consisting of 50% new fibers. West recycles nearly 27,700,000 pounds of scrap paper annually—the equivalent of 229,300 trees. Since the 1960s, West has devised ways to capture and recycle waste inks, solvents, oils, and vapors created in the printing process. We also recycle plastics of all kinds, wood, glass, corrugated cardboard, and batteries, and have eliminated the use of polystyrene book packaging. We at West are proud of the longevity and the scope of our commitment to the environment.

West pocket parts and advance sheets are printed on recyclable paper and can be collected and recycled with newspapers. Staples do not have to be removed. Bound volumes can be recycled after removing the cover.

Production, Prepress, Printing and Binding by West Publishing Company.

British Library Cataloguing-in-Publication Data. A catalogue record for this book is available from the British Library.





COPYRIGHT © 1994 COPYRIGHT © 1997 By WEST PUBLISHING COMPANY
By WEST PUBLISHING COMPANY

610 Opperman Drive P. O. Box 64526

St. Paul, MN 55164-0526

All rights reserved

Printed in the United States of America

04 03 02 01 00 99 98 97 8 7 6 5 4 3 2

Library of Congress Cataloging-in-Publication Data

A Mac for the teacher : ClarisWorks version/Gregg Brownell . . . [et al.].—2nd ed.

p. cm.

Includes index.

ISBN 0-314-20057-6 (soft : alk. paper)

1. Integrated software. 2. ClarisWorks. 3. Macintosh (Computer)

I. Brownell, Gregg.

QA76.76.I57M33 1997

005.365-dc20

96-19129

CIP

Dedication

For Nancy, whose support, energy, intelligence, and constancy continually amaze me, and for Sandy and Justin, who make us a family and who always bring me back to what is really important. Also, special thanks to Les Sternberg and Leigh Chiarelott, both for their support and for their work as true leaders in education.

Gregg Brownell

This book is dedicated to our families: the Metzgers—Den, Brianne, and Dustin; and the Youngs—Bill, Beau, and Betsy. Thank you for your support through all the long hours we have spent sitting in front of a computer rather than spending time with you. We appreciate your assistance with this project in all the large and small ways that you have contributed to the finished product.

Jan Metzger Carol Youngs

For my family, whose love and support are always present and always appreciated.

Nancy Brownell

Preface

This text is designed as an introduction to the Macintosh computer for both preservice and inservice teachers. As such, it covers key concepts and skills related to computers and the tasks teachers commonly perform. Software covered includes ClarisWorks, Version 4.0, a popular integrated software package on the Mac that offers word processing, spreadsheet, database, graphics, and telecommunications applications; HyperCard, a popular, powerful Mac program for creating interactive software on the Mac, as well as Mac-based presentations; and HyperStudio, another interactive program for producing presentations and interactive software that provides for easily integrating images from videotape or videodisc. Examples and practice exercises have been carefully chosen to reflect the types of activities teachers need to perform. Throughout these chapters references are made to make a connection between the tutorial activities and possible classroom activities in sections called Classroom Connection. In addition to the skills-oriented tutorial chapters on these three programs, information about educational computer use in general and the use of different types of computer programs with students is also covered. The text assumes that the user is working on a Macintosh with a hard drive and is operating under System 7.5. Tutorial chapters are written for ClarisWorks, Version 4.0; HyperCard, Version 2.3; and HyperStudio, Version 3.0.6. A brief chapter summary follows.

Chapter 1 Getting to Know the Mac

Introduction to a teacher's perspective on software and to the Macintosh desktop interface.

Chapter 2 ClarisWorks—Word Processing

Editing text, handling documents, using rulers, using font options, finding/changing text, checking spelling and making outlines.

Chapter 3 ClarisWorks Graphics—Draw and Paint

Using draw and paint tools, moving object layers, and using Arrange and Transform menu options.

Chapter 4 ClarisWorks—Database

Browsing and editing data, creating new databases and fields, sorting records, finding and matching records, and creating and editing layouts.

Chapter 5 ClarisWorks—Spreadsheet

Entering and editing data, using formulas and functions, pasting and inserting columns and rows, using absolute and relative references, and making charts and grids.

Chapter 6 ClarisWorks—Additional Features

Using ClarisWorks Stationery and Assistants to help create documents. Introduction to telecommunications, networks, and basic steps for making connections with ClarisWorks.

Chapter 7 Introduction to HyperStudio

Creating cards, adding text and graphic objects, creating buttons, and creating stacks.

Chapter 8 HyperCard - Introduction to Stacks, Fields, and Buttons

Browsing, setting user levels, editing fields, adding cards, using paint tools, adding buttons, and printing stacks.

xviii

xix

Chapter 9 HyperCard—Backgrounds, New Stack, and Added Features

Exploring background and layers; using script—hide, show, and empty fields, push and pop card, and answer and ask commands; creating new stacks; adding sound to a stack; creating animation; using the color tools; and exploring button tasks.

Chapter 10 More with the Mac

More on the teacher's perspective, software examples, classroom scenarios, multimedia examples, and ethics and equity questions.

One basic premise of this text is that the best initial place for a computer in the classroom is on the teacher's desk. For teachers to comfortably and effectively integrate technology into the classroom, they must themselves be comfortable with the technology and able to use it effectively. This can often be accomplished by first providing teachers with the technology and training on how to use it, then providing teachers with time to think about how to use the technology and time to implement the use of technology in accordance with their own teaching styles.

The authors are sensitive to the realities of the classroom as they affect both teachers and students and have all spent considerable time in K through 12 education. We hope that an awareness of the reality is reflected in this work. One major strength of the project, from our perspective, has been its collaborative nature. Carol Youngs is currently Coordinator of Computer Services for Washington Local Schools in Toledo, Ohio, and has spent 20 years previously as a classroom teacher. Jan Metzger is Director of Technology at Maumee City Schools in Ohio and also has over 23 years of classroom experience. Nancy Brownell teaches computer education courses in the Department of Educational Curriculum and Instruction at Bowling Green State University and has previously worked as a math teacher and in industry as a programmer and systems analyst. Gregg Brownell is Director of the Clinical and Computer Labs in the College of Education and Allied Professions at Bowling Green State University and has taught in elementary and secondary education, as well as at the community college and university levels. From these various perspectives we sought to offer a text that would be useful and practical to both the beginning and practicing teacher interested in making use of technology in the schools.

As with any project like this, the comments and suggestions of the reviewers have helped to guide us and, we hope, make a better product. We wish to thank the following people who reviewed our first edition and whose suggestions were insightful, knowledgeable, and much appreciated.

Dale A. Banks, St. Mary's College
Donna J. Fremont, University of Calgary
Tim Smith, Brigham Young University
Norman Sterchele, Saginaw Valley State University
Suzanne Sullivan, California State University at Hayward
Jean G. Ulman, Ball State University
Angie Wilson, Samford University
Roger D. Wolff, Black Hills State University

We would also like to thank our friends and colleagues who read our early drafts of the new text and offered suggestions. Rita Barcus, Daneen Cole, Wendy Cushnie, Mary Schalitz, Sylvia Washburn, Karen Zach, and the Maumee City Schools teachers who attended the staff development programs at the Shuer Center provided very helpful feedback as we were working through the initial stages of the text.

We would also like to thank the people at West Publishing Company who have been so helpful in making this book a reality: Clark Baxter, whose insights are always appreciated; and Linda Poirier, whose competence and support have always been a great help. A special thanks to Matt Thurber, whose timely responses, great support, and willingness to explain the fine points of the production process has made this an exciting experience.

In closing, we hope your experiences with technology are both positive and productive, and that this text helps that to be so. We welcome comments or suggestions related to this work and may be contacted at the following postal and email addresses:

Gregg Brownell Clinical Lab 215 Education Bowling Green State University Bowling Green, Ohio 43403 e-mail: gbrowne@edap.bgsu.edu

Jan Metzger e-mail: ma_jmm@mavca.ohio.gov

Carol Youngs e-mail: wl_cay@mavca.ohio.gov

Nancy Brownell e-mail: nbrowne@bgnet.bgsu.edu Bowling Green, Ohio March, 1996

CONTENTS—

Preface xviii

1	Getting to Know the Mac 1
	Introduction 1
	A Computer System 1
	The Friendly Computer 2
	Initial Concepts 4
	The Pointer: Pointing, Clicking, and Dragging 4
	More on the Desktop 6
	Inserting and Ejecting Floppy Disks 9
	More on Windows 9 Scrolling Windows 9
	Scrolling Windows 9 Resizing Windows 10
	Moving Windows 10
	Closing Windows 10
	Multiple Windows 10
	Alert and Dialog Boxes 12
	Copying and Removing Files on the Desktop 13
	Editing on the Desktop 13 File Handling—Open, Find, and Get Info 13
	Apple Guide 15
	Shutting Down 16
	Preparing to Work with the Data Disk 16
	Copying the Data Disk to the Hard Disk 17 Copying from the Hard Disk to the Floppy Disk 17
	Conclusion 18
	Key Terms 18
2	ClarisWorks—Word Processing 19
	Introduction 20
	Beginning ClarisWorks—Opening a Disk or Document 21
	Using the Mouse 22 Inserting Text 22 Selecting Text 23
	Word Processing Screen Features 24 Menus 24 Choosing Pull-Down Menu Options 25 Title Bar 26

Text Ruler 26
Margins and Page Guides 26
Scroll Bars 27
Zoom Controls 27
Showing/Hiding Tools 29
Editing Text 30
Inserting Text 30
Deleting Text 30
Replacing Text 31
Undoing Errors 32
Saving Documents 33
Changing Disks and Folders 35
Saving with a New Name 36
Closing a Document 36
Quitting ClarisWorks 36
Returning to ClarisWorks 37
Additional Editing Options 37
Moving Text 37
Copying Text 38
Saving a Document Periodically 39
Using Return Markers 39
Editing Font, Size, and Style Menus 40 Editing Font, Size, and Style 41
Inserting New Font, Size, or Style 42
Practice 43
Using the Ruler 43
Using the Ruler 43 Changing Line Spacing 44
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51 More Work with the Ruler 51
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51 More Work with the Ruler 51 Using Indent Markers 51
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51 More Work with the Ruler 51 Using Indent Markers 51
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51 Using Indent Markers 51 Using Tabs 53
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51 More Work with the Ruler 51 Using Indent Markers 51 Using Tabs 53 Setting Tabs 53
Using the Ruler 43 Changing Line Spacing 44 Changing the Alignment of Text 45 Find/Change 46 Printing a Document 47 Launching ClarisWorks from the Desktop 48 Creating a New Document 48 Document Options 49 Page Display 49 Footnotes 49 Page Numbering 50 Margins 50 Changing Margins 50 Entering Text 51 More Work with the Ruler 51 Using Indent Markers 51 Using Tabs 53 Setting Tabs 53 Typing Using Tabs 54

	Introduction to Graphics 72 The Draw Environment 72 Using Draw Tools 72
3	ClarisWorks Graphics—Draw & Pa
	Checking Spelling in Your Document 61 Saving a New Document 63 Creating an Outline 63 ClarisWorks Help 67 Conclusion 68 Key Terms 69 Exercises 69
	Inserting a Page Break 59 Using Headers or Footers to Number Pages 60 Creating a Title Page 61

71 aint

Using the Rectangle Tool 73 Changing an Object's Appearance 74 74 Using Fill and Pen Tools **Duplicating Objects** 77 Working with Layers **Resizing Objects** 78 80 Aligning Objects Practice **Using Additional Tools** 81 81 Using the Polygon Tool **Grouping Objects** Reshaping an Object 85 Smoothing 87 **Practice Other Drawing Tools** 88 89 Using the Line Tool 90 Using the Arc Tool Using Multiple Arcs to Create Shapes 91 Using the Freehand Tool 92 93 Using the Bezigon Tool 95 Using Text with Graphics Practice with Drawing 96 Creating a Slide Show 98 Creating a Master Page 98 Creating the Slides 100 The Paint Environment 102 Using the Polygon Tools 103 105 Using the Pencil Tool Using the Fill Tools 106

Using the Eraser Tool 106	
Selecting Painted Graphics	107
Other Options 107	
Practice with Painting 110	
Conclusion 110	
Key Terms 111	
Exercises 111	

4

ClarisWorks—Database

115

Introduction 114
Data Basics 114
Database Terms 114
Standard Layout 116
Moving in the Database 117
List Mode 118
Changing the Column Size 119
Changing the Row Size 119
Rearranging the Column Order 120
Using Other Layouts 121
Retrieving Information 122
Sorting Records 122
Searching for Specific Information 123
Finding Records 124
Matching Records 126
Creating New Layouts 132
Columnar Layout 132
Printing the Columnar Data 134
Creating Labels 137
Label Layout 137
Adjusting a Label Layout 138
Printing Labels 142
Using Reports 144
Report Parts 144
Creating a New Report 146
Creating a New Layout 147
Creating a New Named Search 148
Editing a Named Sort 149
Creating the Report 150
Mail Merge 150
Creating a Mail Merge Letter 151
Printing a Mail Merge Letter 154
Saving and Closing the Database 155
Creating a New Database 155
Defining Fields 155
Changing Field Names 158

Changing the Field Format 158 Adding Data to the Database 159 Defining a New Calculation Field 161 Saving the Database 162 **Practice** 162 **Preparing More Complex Reports** 163 Browse, Find, Layout, and List Modes 164 Changing the Layout 165 **Summary Parts** Defining a Summary Field 167 Adding a Summary Part 167 Inserting a Summary Field 168 Printing the Database 170 170 **Practice with Reports** Conclusion 171 **Key Terms** 172 **Exercises** 172

5 ClarisWorks—Spreadsheet 175

Entering a Function in a Formula

176 Introduction 176 Spreadsheet Basics Opening a Spreadsheet Document from the Desktop 176 **Basic Spreadsheet Information** 176 180 Cells Selecting Cells 181 Editing Cell Data 183 Adding Data in a Blank Column 183 Columns and Rows 184 184 **Inserting Columns** 185 **Inserting Rows Formulas** 186 186 Entering a Formula Copying a Formula to Other Cells 186 Pasting Cell Contents 186 Filling Cells 187 187 **Cell References** Relative Cell Reference 188 Absolute Cell Reference 188 Using an Absolute Reference 188 190 **Erasing an Entry** 190 **Changing Number Format Practice** 191

192

Right-Justifying Cell Data 193
Locking Titles on the Spreadsheet 194
Splitting the Spreadsheet Window 194
Sorting 196
Printing a Spreadsheet 197 Changing the Display 197 Using Page Setup and Printing 197 Creating a New Spreadsheet 198 More Practice 198 Using Chart Options 199 Creating a Bar Chart 199 Modifying a Chart Title and Legend 200 Changing Chart Size and Location 201 Creating a Stacked Bar Chart 202 Modifying Chart Series 202 Practice with Charts 203 Creating a Grid Form 205 Setting Up a Heading 205 Creating a Spreadsheet Frame 206 Editing a Spreadsheet Frame 207
Removing a Frame Outline 208 Conclusion 210
Key Terms 210
Exercises 210

6 ClarisWorks—Additional Features 211

Introduction 212 **Using ClarisWorks Stationery** 212 Using ClarisWorks Assistants 216 **Introduction to Communications** 219 **Getting Started** 221 Creating a New Communications Document 222 Setting the Scrollback and Capturing Data 225 **Ending a Communications Session** Telecommunications in the Classroom Commercial Collaborative Learning Services 226 Community Resources 227 Electronic Mail Mailing Lists and Discussion Groups 228 Commercial Services **Internet Resources and Tools** 229 The World Wide Web 229 Conclusion 230

Key Terms230References231Resources231

7 Introduction to HyperStudio 235

Introduction 236 **Hyperstudio Elements** 236 236 Stack Card 237 Text Object 237 237 **Button** Introduction to HyperStudio 238 Opening HyperStudio 238 **Using Stacks** 240 Opening a Stack from HyperStudio 240 Browsing a Stack 240 Using Buttons to Browse 241 Using Keys to Browse 242 Using the Move Menu 243 Preferences 243 Saving a Stack Quitting HyperStudio 245 Opening a Stack from the Desktop 245 **Editing a Text Object** 245 Adding Cards to a Stack 246 247 Copying and Pasting Cards New Card 247 247 Delete Card Ready Made Cards 247 Practice Adding Cards and Editing Cards 248 **Tools Menu** 248 Tearing Off the Tools Menu 249 250 Adding a Graphic Object 251 **Editing a Text Object Editing a Button** 252 253 **Practice Adding Sounds and Graphics Painting Tools** 253 The Fill Tool 254 The Rectangle, the Line, and the Spray Tools 254 **Copying and Pasting Graphics** 255 **Additional Graphics Features** 256 **Practice with Graphics** 257

257

Creating a New Stack

Setting Up	the Stack	257			
Creating the	e Title Card	258			
	Tool 259				
Adding a B	utton 25	9			
Creating the C	Cards for the	Stack	260		
New Cards	260				
New Text C	Objects 2	260			
Adding But	ttons 261				
Adding the	Information	to the Ca	ards 2	61	
Storyboard	262				
Practice Chan	ging Card L	ocations	and Addi	ng Cards	263
Conclusion	263				
Key Terms	264				
Exercises 2	264				

HyperCard—Introduction to Stacks, Fields, and Buttons 265

Introduction 266 **Using Stacks** 266 Opening a Stack from the Desktop 266 Browsing a Stack 267 Using Buttons to Browse 267 Using Arrow Keys to Browse 269 Using the Go Menu 269 Quitting HyperCard 270 Saving Stacks Launching the HyperCard Program The Home Stack and the Home Card 271 The User Level 272 Opening a Stack from HyperCard 273 Setting the User Level **Information Dialog Boxes** 275 Stack Information 275 **Background Information** 276 Card Information 277 **Editing a Field** Adding Cards to a Stack 279 Practice with Adding Cards and Editing Fields 280 The Tools Menu 280 The Field Tool and Field Information 282 Practice with Field Information 284 Enhancing a Stack with Graphics 284 The Rectangle Tool, the Pattern Menu, and the Brush Tool

284

Copying and Pasting Graphics with the Select Tool	286
The Spray Tool, the Line Tool, and the Oval Tool	287
Practice with Graphics 287	
Additional Graphics Features 287	
Working with Buttons 289	
Creating a New Button 289	
Choosing a Button Icon 290	
Moving and Resizing a Button 291	
Setting Tasks for a Button 291	
Adding a Visual Effect to a Button Script 292	
Testing a New Button 293	
The Message Box 293	
Copying a Button 293	
Working with Buttons and Fields 294	
Copying a Field 294	
Creating More Buttons 294	
Editing a Button 295	
Adding a Scrolling Field 296	
Entering and Locking Text 297	
Printing in HyperCard 298	
Printing a Stack 298	
Cards per Page 301	
Margins 299	
Order 299	
Headings 300	
Printing a Card 300	
Conclusion 301	
Key Terms 301	
Exercises 201	

HyperCard—Backgrounds, New Stacks, and Added Features 303

Introduction 304 **Exploring Background and Layers** Using Bring Closer and Send Farther 305 Background Layers and Card Layers 306 **Using Keyboard Shortcuts** 307 **Exploring Hidden Fields** 308 Practice Editing Stacks with Hidden Fields 310 Hiding, Showing, and Emptying Fields 310 Naming Fields Using Show Field Script Using Hide Field Script and Put Empty Script 312 Naming Cards 313 Using Go To Card Script 313

Finishing the Area Stack 314
Practice with Hide, Show, and Empty Fields 315
About Hypertalk 315
Writing Stack Script 316
Creating a New Stack 316
Creating Background Graphics 317
Title Card 318
Creating the Second Card 318
Using Push Card and Pop Card Commands 320
Adding Sound to a Script 321
Creating Audio Buttons 322
Practice Adding Sound to Buttons 324
Animation 324
Exploring an Animation Stack 324 Creating Animation 325
Moving the Magnets Separately 326
Writing the Repeat Script 327
Completing the Stack 328
TTT 4
The Answer Command 329
The Answer Command 329 The Ask and If/Then/Else Commands 331
The Ask and If/Then/Else Commands 331
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 332 Turning the Color Tools On 333
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Turning the Color Tools On 333 Exploring the Coloring Tools 333
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Turning the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Turning the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 332 Turning the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Turning the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335 Sound 336
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 332 Turning the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Turning the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335 Sound 336 Speech 337
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Exploring the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335 Sound 336 Speech 337 CD Audio 338
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Exploring the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335 Sound 336 Speech 337 CD Audio 338 Laser Disc 339
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Exploring the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335 Sound 336 Speech 337 CD Audio 338 Laser Disc 339 Tips 339
The Ask and If/Then/Else Commands 331 Practice with Answer and Ask Commands 332 Color Tools 332 Increasing Memory Allocations for HyperCard 333 Exploring the Color Tools On 333 Exploring the Coloring Tools 333 Button Tasks 334 Launch Application 334 Movie 335 Sound 336 Speech 337 CD Audio 338 Laser Disc 339 Tips 339 Conclusion 340

10 In the Classroom 343

Introduction 344
Thinking About Software: Tutor, Tool, Tutee 344
Evaluating Software 346