# **Contents**

#### **Chapter 1**

# **Introduction to Clay** 2

Overview 3

Earth, Water, Fire 4

**Origins of Ceramics** 6

Ceramic Vessels 7

Other Purposes for Early Ceramics 8

**Early Techniques** 9

Preparation 11

Forming Clay 13

Drying Clay 15

Surface Design 16

Painted Designs 17

Glazing 19

Firing 21

Advancements in Ceramics 25

**How to...**Become a Clay Prospector 10

**Art Fundamentals:** Contrast 18

**Art History:** 

Narratives on Clay: A Global Interest 26



## **Nontraditional Approaches:**

Sharon Norwood 28

**Studio Experience:** 

Balloon-Form Storage Vessel 29

Career Profile: George Rodriguez 32

Student Gallery 34

Chapter Review 35

# **Chapter 2**

# **The Art of Ceramics** 36

Overview 37

#### **Elements of Art** 38

Line 39

Shape and Form 40

Texture 41

Color and Value 42

Space 43

**Art History:** Amphora 44

#### **Principles of Design** 45

Contrast 46

Balance 46

Pattern 47

Movement and Rhythm 47

Emphasis 48

Proportion 48

Unity and Variety 49

**How to...**Look at Postmodern Principles in Ceramics *50* 

Unknown artist, Moche IV, *Portrait Head Vessel*, 1–800 CE. Museo Larco, Lima, Peru. commons.wikimedia.org/wiki/File:HuacoRetrato MuseoLarco.jpg. CC BY-SA 3.0.

#### **Art Fundamentals:**

Postmodern Principles: Appropriation 52

**Aesthetics** 53

Steps in Aesthetic Scanning 54

# **Nontraditional Approaches:**

Livia Marin 60

# **Studio Experience:**

An Expressive Sculpture 61

Career Profile: Rainy Naha 64

Student Gallery 66

Chapter Review 67



Unknown artist, Japan, *Haniwa Horse*, 401–500 CE. Art Institute of Chicago. Gift of Robert Allerton, 1957.248.

## **Chapter 3**

# **Working with Clay** 68

Overview 69

**Clay Body Types** 70

The Six Stages of Clay 71

**Clay Properties** 72

Plasticity 72

Shrinkage 73

Texture 74

Moisture 75

Handling Clay 76

**Art History:** Casas Grandes Revival 77

# **Preparing the Clay** 79

Preparing Premixed Clay 81

Kneading 82

Wedging 83

**How to...**Safely Prepare Clay 80

**Art Fundamentals:** Emphasis 86

**Clay Tools** 87

Nontraditional Approaches: Roberto Lugo 88

**Studio Experience:** Clay Slab Sculpture 89

Career Profile: Dawn Candy 92

Student Gallery 94

Chapter Review 95



Helen Shupla (Kah'p'oo Owinge), *Melon Bowl*, 1970–1980. Brooklyn Museum, Brooklyn, NY, gift of The Roebling Society, 87.63. Creative Commons-BY.

# **Chapter 4**

# **Hand-Built Forms: Pinching and Coiling** 96

Overview 97

**Pinching** 98

Practice: Pinch Pot 99

Variations on the Basic Pinch Pot 103

Making a Rattle 107

**How to...**Join Two Pieces of Clay 106

**Art History:** Tea and Its Influence on

Ceramics 108

Coiling 110

Making a Coiled Pot 110

Making a Coiled Pot with Slab Strips 118

**How to...**Extrude Clay 113

**Art Fundamentals:** Space 119

**Art History:** Discovering Jōmon Ware 120

**Nontraditional Approaches:** 

Habiba El-Sayed 122

**Studio Experience:** A Unique Chess Set 123

Career Profile: Cheryl Tall 126

Student Gallery 128

Chapter Review 129

Habiba El-Sayed, *Weight of Apology*, site-specific work at Nova Scotia College of Art and Design, 2016. Photography by Raghed Charabaty. Courtesy of the artist.

# **Chapter 5**

# Hand-Built Forms: Slabs, Molds, and Tiles 130



Ann PerrySmith, *M Is for...*, 2015. Courtesy of the artist. Photo: Ann PerrySmith.

Overview 131

**Slabs** 132

Making Slabs 133

**Molds** 135

Sling Molds 136

Press Molds 138

Drape Molds 140

**How to...**Make a Mask from a Live Model 142



Stiff Slabs 144

Practice: Making a Clay Box 145

**Tiles** 149

Thinking about Tile Design 150 Relief 153

Art History: Azulejo of Spain and

Portugal 156

**Art Fundamentals:** Unity 157

**Sculpture** 158

Using Supports and Braces 159 Making a Solid Structure 159 Horse Sculptures 161

**Art History:** Mausoleum of Qin Shi Huang 160

**Nontraditional Approaches:** Tim

Kowalczyk 162

**Studio Experience:** Wordplay Sculpture 163

Career Profile: Zemer Peled 166

Student Gallery 168
Chapter Review 169



George E. Ohr, *Vase*, ca. 1895–1905. The Metropolitan Museum of Art, gift of Martin Eidelberg, 2017.444.2.

#### **Chapter 6**

# **Thrown Forms** 170

Overview 171

The Wheel 172

The Electric Wheel and the Kick Wheel 173
Getting Ready to Throw 174
Centering and Coning 175
Opening the Dome 179

**How to...**Use the Potter's Wheel Safely 178

**Art Fundamentals:** Balance 181

**Throwing the Cylinder** 182

Trimming 188

**How to...**Make an Oval Casserole Dish 185

**Art History:** Rookwood Pottery 186

**Thrown Tableware** 192

Throwing a Bowl 192
Throwing a Plate 195

Lids and Spouts 198

Throwing a Flat Lid with a Knob 199
Throwing a Flat Lid with a Flange 201
Throwing a Dome Lid 202
Pouring Lips and Spouts 203

**How to...**Make a Spout 204

Handles 205

Making a Pulled Handle 206 Making Lug Handles 208 Making Thrown Handles 209 Attaching the Handle 210

Teapots 211

Planning Your Teapot 211 Making a Teapot 212

**Nontraditional Approaches:** Kenny Sing 214

**Studio Experience:** 

Personal Plate for a Dinnerware Party 215

Career Profile: Eric Heerspink 218

Student Gallery 220

Chapter Review 221

## **Chapter 7**

# **Surface Design** 222

Overview 223

#### **Choosing Surface Treatment Techniques** 224

#### **Texture** 225

Relief 226

Impressing 227

Incising 228

Appliqué 229

Piercing 230

Burnishing 231

#### Color 232

Colored Clay 234

Inlaying 235

Oxides and Carbonates 236

Colored Slips 240

Underglaze 241

## **Art Fundamentals:** Value 233

## **Art History:** Blue-and-White Ware 238

## **Techniques for Using Color** 242

Sponging 242

Spattering 242

Brushing 243

Masking 243

Paper Resist 244

Wax Resist 244

Slip Trailing 245

Sgraffito 245

Mishima 246

Terra Sigillata 246

#### **Art Fundamentals:** Pattern 247

#### Glazes 248

Types of Glazes 249



Christina Erives, *Panza Ilena Corazon Contento*, 2020. Photo: Mark Brock. Courtesy Christina Erives.

# **Applying Glazes** 256

Dipping 257

Pouring 258

Brushing 259

Spraying 259

Glazing Problems and Solutions 262

#### **How to...**Spray Glazes 260

## **Nontraditional Approaches:** Hitomi

Hosono 264

#### **Studio Experience:**

Rhythm and Unity in Surface Design 265

Career Profile: Jo Taylor 268

Student Gallery 270

Chapter Review 271

# **Chapter 8**

# The Firing Process 272

Overview 273

# **Common Kiln Types** 274

Electric Kilns 274 Gas Kilns 275

#### **Variables in Firing** 276

Atmosphere 276 Temperature 278

**Art Fundamentals:** Color 277

# **Stages of Firing** 280

Bisque Firing 281 Glaze Firing 283

# Firing Problems and Solutions 286

Inadequate Venting 286
Firing Too Fast 286
Overfiring 287
Cooling Too Rapidly 287

# **Big Ideas in Clay** 288

Works in a Series 288 Finding Inspiration 290

**Art History:** Peter Voulkos and the Birth of

Ceramic Art 292

# **Additional Firing Techniques** 294

Bonfire 295 Pit Firing 296 Wood Firing 301 Saggar Firing 302 Raku Firing 303

**How to...**Pit Fire Ceramics 297

#### Overglazes 306

China Paints and Enamels 307 Lusters and Metallics 307

Nontraditional Approaches: Virgil Ortiz 308



Unknown artist, Zulu culture, *Lidded Pot*, 1900s. The Cleveland Museum of Art, John L. Severance Fund, 1999.13.

# **Studio Experience:** Luster and Metallic

Overglaze 309

Career Profile: Sid Henderson 312

Student Gallery 314

Chapter Review 315

# **Chapter 9**

# Mixed Media 316

Overview 317

#### **Getting Started with Mixed Media** 318

**Art History:** Collage, Found Object Art, and Assemblage *319* 

# **Adding Media** 320

Wood 320

Textiles 321

Metals 321

Plastics 322

Glass 322

Painting and Drawing Media 322

#### **Combining Media with Fired Clay** 323

Single-Form Construction (SFC) 323 Multiple-Form Construction (MFC) 331 **How to...**Make a Vessel with Wooden Handles 326

**How to...**Create Polymer Clay Additions 328

**How to...**Make a Slab Sculpture with Media Additions *330* 

# **Combining Media with Unfired Clay** 332

Paperclay 332 Organic Material 333 Glass 333 Metal 334

# **Printmaking Techniques** 335

Transfer Printing 335
Monotypes and Monoprints 337
Photo Emulsions 338
3D Printing 338

**How to...**Create Computer-Generated Decal Transfers 336

**Installation Art** 339

**Art Fundamentals:** Postmodern Principles: Juxtaposition *340* 

# Aesthetic Scanning for Mixed-Media and Installation Art 341

The Big Picture 341
The Little Picture 342

**Aesthetics:** Lauren Grossman Explains Her Work 343

# **Nontraditional Approaches:** Cristina

Córdova 344

 $\textbf{Studio Experience:} \ A \ Mixed-Media$ 

Sculpture 345

Career Profile: Paul Andrew Wandless 348

Student Gallery 350

Chapter Review 351

# **Timeline of Ceramics History** *352*

Handbook 360

**Glossary** 375

Index 381



Soojin Choi, *To a Depth*, 2015. Courtesy of Soojin Choi.