

# MasteringGeography™

NEED HELP **VISUALIZING** WORLD  
REGIONAL GEOGRAPHY CONCEPTS?

NEED **GUIDANCE** BEFORE A  
LECTURE OR AN EXAM?

**MasteringGeography** has the resources you need to help you excel in your world regional geography course and get you the grade you want! MasteringGeography is an online homework, tutorial, and assessment system designed to improve results by empowering you to quickly master geography concepts. You will benefit from self-paced coaching activities that feature feedback and hints that keep you on track. With a wide range of interactive, engaging, and assignable activities, you will be encouraged to actively learn and master challenging course concepts.

## Top Three Reasons You'll Want to Use MasteringGeography™

1. Whether or not your professor assigns homework through MasteringGeography, **YOU** have access to both the eText and all of the resources in the **Study Area**. Access practice quizzes, flashcards, Videos, GIS-inspired MapMaster interactive maps, *In the News* readings, Animations, and much more to help you get the best possible grade in the course.
2. **Dynamic Study Modules** ensure you acquire, retain, and recall information faster and more effectively so you can be successful on quizzes and exams. Each question prompts you to identify how confident you are in your answer, and the modules adapt accordingly.
3. For any homework activities your professor assigns, such as with **MapMaster interactive maps, Videos, Encounter Google Earth Activities, Google Earth Virtual Tour Videos, or Animations**, you'll receive wrong-answer feedback personalized to your answers, which will help you get back on track.

*To get access to all this great material and more, ask your instructor how you can get started using MasteringGeography!*

www.masteringgeography.com  
www.pearsonhighered.com

**About the Cover:** This ethereal scene of tourists floating over the ancient Buddhist temples of Bagan illustrates the themes of this book: the geography of globalization and diversity, expressed in the way humans interact with their unique environment and engage with the outside world. Bagan, located on the Irrawaddy River, was the political and cultural center of the Pagan Kingdom that ruled what is now Burma (Myanmar) from 849 to 1297 CE. During its heyday, Bagan's 200,000 residents created a rich landscape of over 10,000 religious monuments. Recent political and social reforms have drawn international tourists and foreign investment to Burma, making it the fastest-growing economy in the Southeast Asian world region. Yet continued military control and ethnic violence could alter Burma's global linkages once again.

Please visit us at [www.pearsonhighered.com](http://www.pearsonhighered.com) for more information. To order any of our products, contact our customer service department at (800) 824-7799, (201) 767-5021 outside of the U.S., or visit your campus bookstore.

ISBN-13: 978-0-13-411701-0  
ISBN-10: 0-13-411701-8





# Contents

**BOOK & MasteringGeography™ WALKTHROUGH** i

**PREFACE** xxi

**ABOUT THE AUTHORS** xxv

**DIGITAL & PRINT RESOURCES** xxvi

## 1 CONCEPTS OF WORLD GEOGRAPHY 2

### Geography Matters: Environments, Regions, Landscapes 5

Areal Differentiation and Integration 5 • The Cultural Landscape: Space into Place 6 • Regions: Formal and Functional 6

### Converging Currents of Globalization 7

**EXPLORING GLOBAL CONNECTIONS** A Closer Look at Globalization 8

The Environment and Globalization 8 • Globalization and Changing Human Geographies 8 • Geopolitics and Globalization 9 • Economic Globalization and Uneven Development Outcomes 11 • Thinking Critically About Globalization 11 • Diversity in a Globalizing World 13

### The Geographer's Toolbox: Location, Maps, Remote Sensing, and GIS 14

Latitude and Longitude 14 • Map Projections 15 • Map Scale 16 • Map Patterns and Map Legends 16 • Aerial Photos and Remote Sensing 16 • Geographic Information Systems (GIS) 17 • Themes and Issues in World Regional Geography 18 • Physical Geography and Environmental Issues: The Changing Global Environment 18

**WORKING TOWARD SUSTAINABILITY** Meeting the Needs of Future Generations 19

### Population and Settlement: People on the Land 19

Population Growth and Change 20 • Global Migration and Settlement 24

### Cultural Coherence and Diversity: The Geography of Change and Tradition 25

Culture in a Globalizing World 25

**EVERYDAY GLOBALIZATION** Common Cultural Exchanges 26

Language and Culture in Global Context 27 • The Geography of World Religions 28 • Culture, Gender, and Globalization 30

### Geopolitical Framework: Unity and Fragmentation 31

The Nation-State Revisited 31 • Colonialism, Decolonialization, and Neocolonialism 32 • Global Conflict and Insurgency 32

**GEOGRAPHERS AT WORK** Tracking Conflict from Space 34

### Economic and Social Development: The Geography of Wealth and Poverty 34

More and Less Developed Countries 35 • Indicators of Economic Development 35 • Comparing Incomes and Purchasing Power 37 • Measuring Poverty 37 • Indicators of Social Development 38

**Review** 40 **Data Analysis** 41

## 2 PHYSICAL GEOGRAPHY AND THE ENVIRONMENT 42

### Geology: A Restless Earth 44

Plate Tectonics 44 • Geologic Hazards 47

### Global Climates: Adapting to Change 48

Climate Controls 48

**GEOGRAPHERS AT WORK** Glaciers and Climate Change 49

Climate Regions 51 • Global Climate Change 52

**EXPLORING GLOBAL CONNECTIONS** Antarctica, the Science Continent 55

### Bioregions and Biodiversity: The Globalization of Nature 57

Nature and the World Economy 57 • Climate Change and Nature 57 • The Current Extinction Crisis 58

**EVERYDAY GLOBALIZATION** The Rainforest and Your Chocolate Fix 59





## Water: A Scarce World Resource 60

Water Sanitation 60 • Water Access 60

**WORKING TOWARD SUSTAINABILITY** Women and Water in the Developing World 61

## Global Energy: The Essential Resource 62

Nonrenewable and Renewable Energy 62 • Fossil Fuel Reserves, Production, and Consumption 62 • Renewable Energy 62 • Energy Futures 63

**Review** 64 **Data Analysis** 65

# 3 NORTH AMERICA 66

## Physical Geography and Environmental Issues:

### A Vulnerable Land of Plenty 70

A Diverse Physical Setting 70 • Patterns of Climate and Vegetation 71 • The Costs of Human Modification 73

**WORKING TOWARD SUSTAINABILITY** Greening the Colorado River Delta 74

Growing Environmental Awareness 75 • The Shifting Energy Equation 76 • Climate Change and North America 77

## Population and Settlement: Reshaping a Continental Landscape 77

**EXPLORING GLOBAL CONNECTIONS** Climate Change Brings Luxury Cruises to the Fabled Northwest Passage 78

Modern Spatial and Demographic Patterns 78 • Occupying the Land 78 • North Americans on the Move 80 • Settlement Geographies: The Decentralized Metropolis 81 • Settlement Geographies: Rural North America 83

## Cultural Coherence and Diversity: Shifting Patterns of Pluralism 84

The Roots of a Cultural Identity 84 • Peopling North America 85 • Culture and Place in North America 86 • Patterns of North American Religion 88 • The Globalization of American Culture 89

**EVERYDAY GLOBALIZATION** The NBA Goes Global 91

## Geopolitical Framework: Patterns of Dominance and Division 92

Creating Political Space 92 • Continental Neighbors 92 • The Legacy of Federalism 92 • The Politics of U.S. Immigration 94 • A Global Reach 94

## Economic and Social Development: Geographies of Abundance and Affluence 95

An Abundant Resource Base 95 • Creating a Continental Economy 95 • North America and the Global Economy 96 • Enduring Social Issues 97

**GEOGRAPHERS AT WORK** Toronto's Chinese Entrepreneurs 98

**Review** 100 **Data Analysis** 101



# 4 LATIN AMERICA 102

## Physical Geography and Environmental Issues: Neotropical Diversity and Urban Degradation 106

Western Mountains and Eastern Lowlands 106 • Climate and Climate Change in Latin America 108 • Impacts of Climate Change for Latin America 110 • Environmental Issues: The Destruction and Conservation of Forests 111 • Urban Environmental Challenges 113

**WORKING TOWARD SUSTAINABILITY** Greening Transport and Expanding Access in Bogotá 115

## Population and Settlement: The Dominance of Cities 116

Patterns of Rural Settlement 116 • The Latin American City 117 • Population Growth and Movement 118

## Cultural Coherence and Diversity: Repopulating a Continent 121

The Decline of Native Populations 122 • Patterns of Ethnicity and Culture 122 • The Global Reach of Latino Culture 123

## Geopolitical Framework: Redrawing the Map 125

Iberian Conquest and Territorial Division 125

**EXPLORING GLOBAL CONNECTIONS** The Catholic Church and the Argentine Pope 126  
Regional Organizations 129

## Economic and Social Development: Focusing on Neoliberalism 130

Primary Export Dependency 131

**GEOGRAPHERS AT WORK** Development Work in Post-Conflict Colombia 131

**EVERYDAY GLOBALIZATION** Good Morning Coffee 132  
Latin America in the Global Economy 133 • Social Development 135

**Review** 138 **Data Analysis** 139



## 5 THE CARIBBEAN 140

### Physical Geography and Environmental Issues: Paradise Undone 144

Island and Rimland Landscapes 144

**EXPLORING GLOBAL CONNECTIONS** Crisis Mapping in Haiti After the Earthquake 146  
Caribbean Climate and Climate Change 146 • Environmental Issues 148

### Population and Settlement: Densely Settled Islands and Rimland Frontiers 151

Demographic Trends 151 • The Rural–Urban Continuum 153

### Cultural Coherence and Diversity: A Neo-Africa in the Americas 155

The Cultural Impact of Colonialism 155

**WORKING TOWARD SUSTAINABILITY** Urban Agriculture in Havana 156

Creolization and Caribbean Identity 157

**EVERYDAY GLOBALIZATION** Caribbean Carnival 159

### Geopolitical Framework: Colonialism, Neocolonialism, and Independence 161

Life in “America’s Backyard” 161 • Independence and Integration 163

### Economic and Social Development: From Cane Fields to Cruise Ships 163

From Fields to Factories and Resorts 164

**GEOGRAPHERS AT WORK** Educational Tourism in Cuba 167  
Social Development 167 • Gender, Politics, and Culture 168

**Review** 170 **Data Analysis** 171

## 6 SUB-SAHARAN AFRICA 172

### Physical Geography and Environmental Issues: The Plateau Continent 176

Plateaus and Basins 176 • Climate and Vegetation 178 • Africa’s Environmental Issues 180

**WORKING TOWARD SUSTAINABILITY** Can Bamboo Reduce Deforestation in Africa? 183

Climate Change and Vulnerability in Sub-Saharan Africa 185

### Population and Settlement: Young and Restless 186

Demographic Trends and Disease Challenges 186 • The Disease Factor: Malaria, HIV/AIDS, and Ebola 187 • Patterns of Settlement and Land Use 188 • Urban Life 191

### Cultural Coherence and Diversity: Unity Through Adversity 193

Language Patterns 193 • Religion 194

**EXPLORING GLOBAL CONNECTIONS** The Reach of Nollywood 198

### Geopolitical Framework: Legacies of Colonialism and Conflict 199

European Colonization 199 • Decolonization and Independence 201 • Enduring Political Conflict 202

**EVERYDAY GLOBALIZATION** The African Origins of the Diamond Engagement Ring 204

### Economic and Social Development: The Struggle to Develop 205

Roots of African Poverty 205 • Signs of Economic Growth 206  
Links to the World Economy 207

**GEOGRAPHERS AT WORK** Vision for Sustainable Development in West Africa 208

Economic Differentiation Within Africa 209 • Measuring Social Development 211 • Women and Development 212 • Building from Within 212

**Review** 214 **Data Analysis** 215

## 7 SOUTHWEST ASIA AND NORTH AFRICA 216

### Physical Geography and Environmental Issues: Life in a Fragile World 220

Regional Landforms 220 • Patterns of Climate 221 • Legacies of a Vulnerable Landscape 221 • Climate Change in Southwest Asia and North Africa 224

**WORKING TOWARD SUSTAINABILITY** Desalination in the Desert at Dubai’s Jebel Ali Plant 225

### Population and Settlement: Changing Rural and Urban Worlds 226





The Geography of Population 226 • Water and Life: Rural Settlement Patterns 226 • Many-Layered Landscapes: The Urban Imprint 229 • A Region on the Move 230 • Shifting Demographic Patterns 231

## Cultural Coherence and Diversity: Signatures of Complexity 232

Patterns of Religion 232

**EXPLORING GLOBAL CONNECTIONS** The Libyan Highway to Europe 234

Geographies of Language 236 • Regional Cultures in Global Context 238

## Geopolitical Framework: Never-Ending Tensions 239

The Colonial Legacy 239 • Modern Geopolitical Issues 241

**GEOGRAPHERS AT WORK** How Do We Define “Middle East”? 244

## Economic and Social Development: Lands of Wealth and Poverty 244

The Geography of Fossil Fuels 245 • Global Economic Relationships 245 • Regional Economic Patterns 245

**EVERYDAY GLOBALIZATION** Popping Pills from Israel 247

Gender, Culture, and Politics: A Woman’s Changing World 248

**Review** 250 **Data Analysis** 251

# 8 EUROPE 252

## Physical Geography and Environmental Issues: Human Transformation of a Diverse Landscape 256

Landform Regions 256 • Seas, Rivers, and Ports 257 • Europe’s Climate 258 • Environmental Issues: Local and Global 260 • Climate Change in Europe 260

## Population and Settlement: Slow Growth and Problematic Migration 262

Low (or No) Natural Growth 262

**GEOGRAPHERS AT WORK** Migrants in the Digital Age 265

Extralegal Migration, Leaky Borders, and “Fortress Europe” 265 • Landscapes of Urban Europe 267

**WORKING TOWARD SUSTAINABILITY** Protecting Europe’s Cultural Landscapes 268

## Cultural Coherence and Diversity: A Mosaic of Differences 269

Geographies of Language 270

**EVERYDAY GLOBALIZATION** English, Europe’s New Second Language 271

Geographies of Religion, Past and Present 272 • Migrants and Culture 274 • Sports in Europe 274

## Geopolitical Framework: A Dynamic Map 275

Redrawing the Map of Europe Through War 275 • A Divided Europe, East and West 278 • The Balkans: Waking from a Geopolitical Nightmare 279 • Devolution in Contemporary Europe 279

**EXPLORING GLOBAL CONNECTIONS** The New Cold War 280

## Economic and Social Development: Integration and Transition 282

Europe’s Industrial Revolution 282 • Rebuilding Postwar Europe 282

• Economic Disintegration and Transition in Eastern Europe 283

• Promise and Problems of the Eurozone 285 • The 2015 Greek Debt Crisis and Its Implications for the Eurozone 285 • Social Development in Europe: Gender Issues 287

**Review** 288 **Data Analysis** 289

# 9 THE RUSSIAN DOMAIN 290

## Physical Geography and Environmental Issues: A Vast and Challenging Land 295

A Diverse Physical Setting 295 • A Devastated Environment 297

**EXPLORING GLOBAL CONNECTIONS** Russian Meteorite Fragments Go Global 298

Addressing the Environmental Crisis 299 • Climate Change in the Russian Domain 299

**WORKING TOWARD SUSTAINABILITY** Putting a Lid on Chernobyl 302

## Population and Settlement: An Urban Domain 303

Population Distribution 303 • Regional Migration Patterns 304

**GEOGRAPHERS AT WORK** Exploring Arctic Russia’s Changing Urban Landscape 305

Inside the Russian City 307 • The Demographic Crisis 307

## Cultural Coherence and Diversity: The Legacy of Slavic Dominance 308

The Heritage of the Russian Empire 308 • Geographies of Language 309 • Geographies of Religion 309 • Russian Culture in Global Context 311

## Geopolitical Framework: Growing Instability Across the Region 312





Geopolitical Structure of the Former Soviet Union 312 • Current Geopolitical Setting 313 • The Shifting Global Setting 316

## Economic and Social Development: Coping with Growing Regional Challenges 316

The Legacy of the Soviet Economy 316 • The Post-Soviet Economy 316 • Gender, Culture, and Politics 318 • The Russian Domain in the Global Economy 318

**EVERYDAY GLOBALIZATION** How the Russian Domain Shapes the Virtual World 318

**Review** 320 **Data Analysis** 321

# 10 CENTRAL ASIA 322

## Physical Geography and Environmental Issues: Steppes, Deserts, and Threatened Lakes 326

Central Asia's Physical Regions 326 • Major Environmental Issues 326

**WORKING TOWARD SUSTAINABILITY** The Greening of the Inner Mongolian Desert 329

Climate Change and Central Asia 329

## Population and Settlement: Densely Settled Oases Amid Vacant Lands 330

Highland Population and Subsistence Patterns 331 • Lowland Population and Subsistence Patterns 331 • Population Issues 332 • Urbanization in Central Asia 332

**EXPLORING GLOBAL CONNECTIONS** Tajikistan's Remittance-Dependent Economy 333

## Cultural Coherence and Diversity: A Meeting Ground of Different Traditions 334

Historical Overview: Changing Languages and Populations 334  
Contemporary Linguistic and Ethnic Geography 334

**GEOGRAPHERS AT WORK** Kazakh Migration in Mongolia 335  
Geography of Religion 337 • Central Asian Culture in Global Context 337

## Geopolitical Framework: Political Reawakening 338

Partitioning of the Steppes 338 • Central Asia Under Communist Rule 338  
Current Geopolitical Tensions 339 • International Dimensions of Central Asian Tension 341

## Economic and Social Development: Abundant Resources, Troubled Economies 342

Post-communist Economies 342

**EVERYDAY GLOBALIZATION** Rare Earths from Inner Mongolia 343  
Social Development in Central Asia 344

**Review** 346 **Data Analysis** 347

# 11 EAST ASIA 348

## Physical Geography and Environmental Issues: Resource Pressures in a Crowded Land 352

East Asia's Physical Geography 352 • East Asia's Environmental Challenges 355 • Flooding, Dams, and Soil Erosion in China 357 • Climate Change and East Asia 358

**GEOGRAPHERS AT WORK** China's Agricultural Transformation 359

## Population and Settlement: A Realm of Crowded Lowland Basins 360

Japanese Settlement and Agricultural Patterns 360 • Settlement and Agricultural Patterns in Korea and Taiwan 360 • Settlement and Agricultural Patterns in China 361 • East Asian Agriculture and Resources in Global Context 361

**WORKING TOWARD SUSTAINABILITY** Tea and Coffee in Yunnan, China 362

The Urban Environment of East Asia 363

**EXPLORING GLOBAL CONNECTIONS** South Korean Investments and Aid in Africa 364

## Cultural Coherence and Diversity: A Confucian Realm? 365

Unifying Cultural Characteristics 365 • Religious Unity and Diversity in East Asia 366 • Linguistic and Ethnic Diversity in East Asia 367 • East Asian Cultures in Global Context 370

## Geopolitical Framework: The Imperial Legacies of China and Japan 371

The Evolution of China 371 • The Rise of Japan 373 • Postwar Geopolitics 374 • The Global Dimension of East Asian Geopolitics 375

## Economic and Social Development: A Core Region of the Global Economy 376

Japan's Economy and Society 376 • The Thriving Economies of South Korea, Taiwan, and Hong Kong 377

**EVERYDAY GLOBALIZATION** East Asia's Domination of Shipbuilding 378  
Chinese Development 378 • Social Conditions in China 381 • The Failure of Development in North Korea 381

**Review** 382 **Data Analysis** 383







## 12 SOUTH ASIA 384

### Physical Geography and Environmental Issues: Diverse and Stressed Landscapes 388

Physical Subregions of South Asia 388

**GEOGRAPHERS AT WORK** The Himalayan Environment 389

South Asia's Monsoon Climates 390 • Climate Change and South Asia 391 • Natural Hazards, Landscape Change, and Pollution 392

**WORKING TOWARD SUSTAINABILITY** Community Development and Mangrove Conservation in Sri Lanka 393

### Population and Settlement: The Demographic Dilemma 394

Migration and the Settlement Landscape 394 • Agricultural Regions and Activities 395 • Urban South Asia 397

### Cultural Coherence and Diversity: A Common Heritage Undermined by Religious Rivalries 398

Origins of South Asian Civilizations 398

**EVERYDAY GLOBALIZATION** India and the International Day of Yoga 399

Contemporary Geographies of Religion 399 • Geographies of Language 401 • South Asia in Global Cultural Context 403

**EXPLORING GLOBAL CONNECTIONS** The Indian Film Industry's International Reach 404

### Geopolitical Framework: A Deeply Divided Region 405

South Asia Before and After Independence 405 • Ethnic Conflicts in South Asia 407 • The Maoist Challenge 409 • International Geopolitics 410

### Economic and Social Development: Rapid Growth and Rampant Poverty 411

South Asian Poverty 411 • Geographies of Economic Development 411  
Globalization and South Asia's Economic Future 414 • Social Development 414

**Review** 416 **Data Analysis** 417

## 13 SOUTHEAST ASIA 418

### Physical Geography and Environmental Issues: A Once-Forested Region 422

Patterns of Physical Geography 422 • Environmental Problems: Deforestation, Pollution, and Dams 423 • Patterns of Deforestation 423 • Smoke and Air Pollution 425 • Dam-Building in Southeast Asia 426 • Climate Change and Southeast Asia 426

### Population and Settlement: Subsistence, Migration, and Cities 427

**WORKING TOWARD SUSTAINABILITY** New Efforts to Create an Environmentally Responsible Palm Oil Industry 428  
Settlement and Agriculture 428

**EXPLORING GLOBAL CONNECTIONS** The Opium Resurgence in Northern Southeast Asia 430

Recent Demographic Changes 430 • Urban Settlement 432

### Cultural Coherence and Diversity: A Meeting Ground of World Cultures 433

The Introduction and Spread of Major Cultural Traditions 434 • Geography of Language and Ethnicity 435 • Southeast Asian Culture in Global Context 438

### Geopolitical Framework: War, Ethnic Strife, and Regional Cooperation 439

Before European Colonialism 439 • The Colonial Era 439 • The Vietnam War and Its Aftermath 441 • Geopolitical Tensions in Contemporary Southeast Asia 441 • International Dimensions of Southeast Asian Geopolitics 443

### Economic and Social Development: The Roller-Coaster Ride of Developing Economies 444

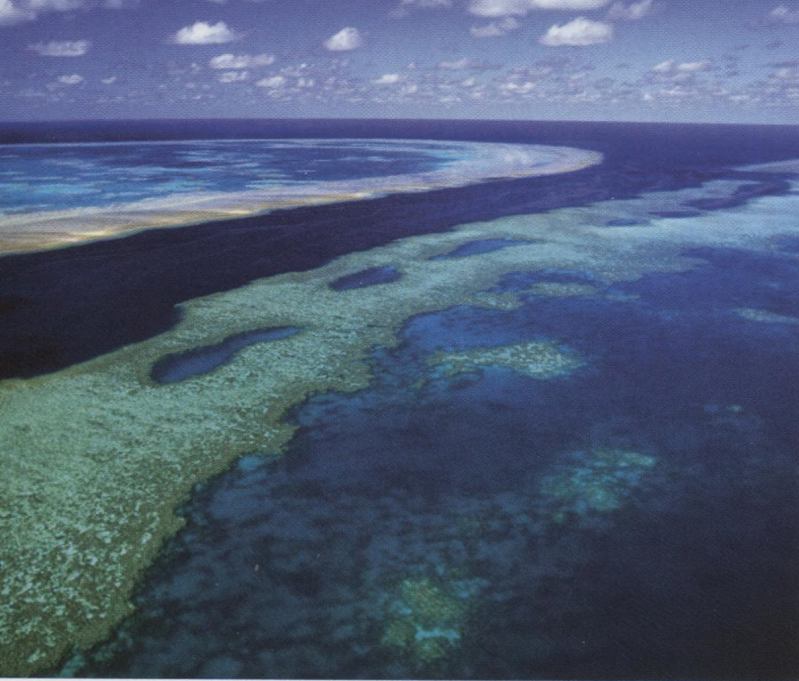
Uneven Economic Development 444 • Globalization and the Southeast Asian Economy 446 • Issues of Social Development 447

**EVERYDAY GLOBALIZATION** Thailand's Troublesome Seafood Exports 448

**GEOGRAPHERS AT WORK** Female Migrant Workers in Southeast Asia 449

**Review** 450 **Data Analysis** 451





# 14 AUSTRALIA AND OCEANIA 452

## Physical Geography and Environmental Issues: Varied Landscapes and Habitats 456

Regional Landforms and Topography 456 • Regional Climate Patterns 457 • Unique Plants and Animals 458 • Complex Environmental Issues 459 • Climate Change in Oceania 460

**WORKING TOWARD SUSTAINABILITY** Sea-Level Rise and the Future of Low Islands 462

## Population and Settlement: Booming Cities and Empty Spaces 463

Contemporary Population Patterns 463 • Historical Geography 463 • Settlement Landscapes 466 • Diverse Demographic Paths 468

## Cultural Coherence and Diversity: A Global Crossroads 468

Multicultural Australia 469 • Cultural Patterns in New Zealand 469 • The Mosaic of Pacific Cultures 470

**EXPLORING GLOBAL CONNECTIONS** Asylum Seekers Arrive in Australia 471

Interactions with the Larger World 472

## Geopolitical Framework: Diverse Paths to Independence 474

Roads to Independence 474 • Persistent Geopolitical Tensions 475

## Economic and Social Development: Growing Asian Connections 477

Australian and New Zealand Economies 477 • Oceania's Divergent Development Paths 478

**GEOGRAPHERS AT WORK** Planning for the Future Across the Pacific Basin 479

**EVERYDAY GLOBALIZATION** Wine from Down Under Gains Global Appeal 480

Oceania in Global Context 480 • Continuing Social Challenges 480 • Gender, Culture, and Politics 481

**Review** 482 **Data Analysis** 483

**APPENDIX** A-1

**GLOSSARY** G-1

**CREDITS** C-1

**INDEX** I-1