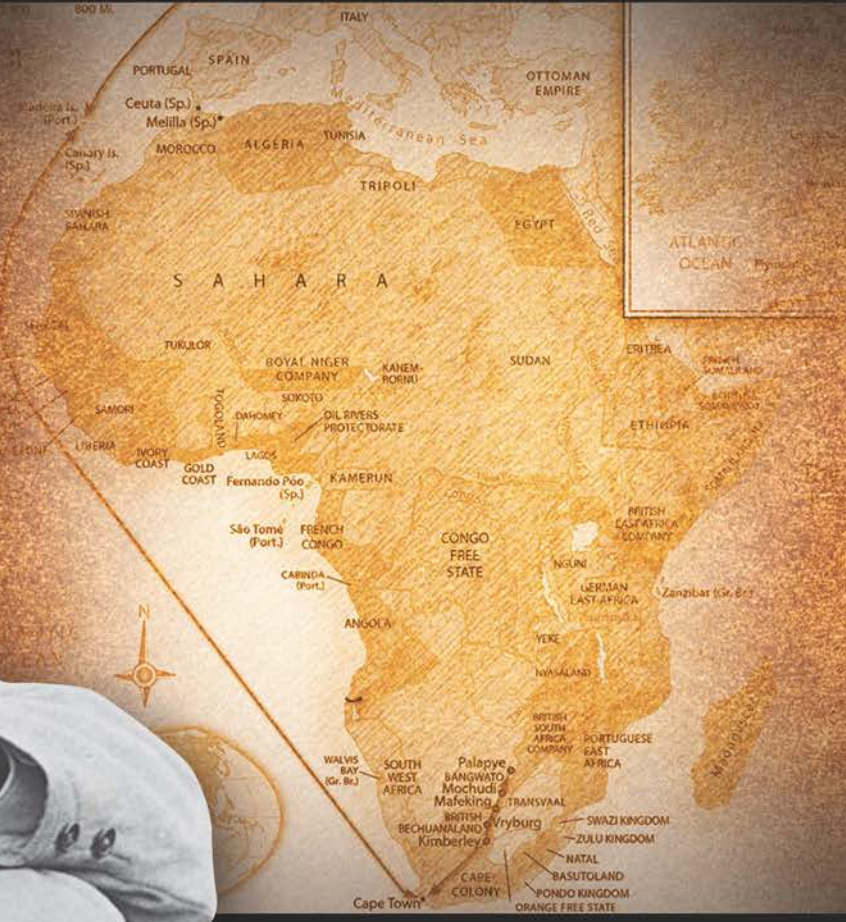
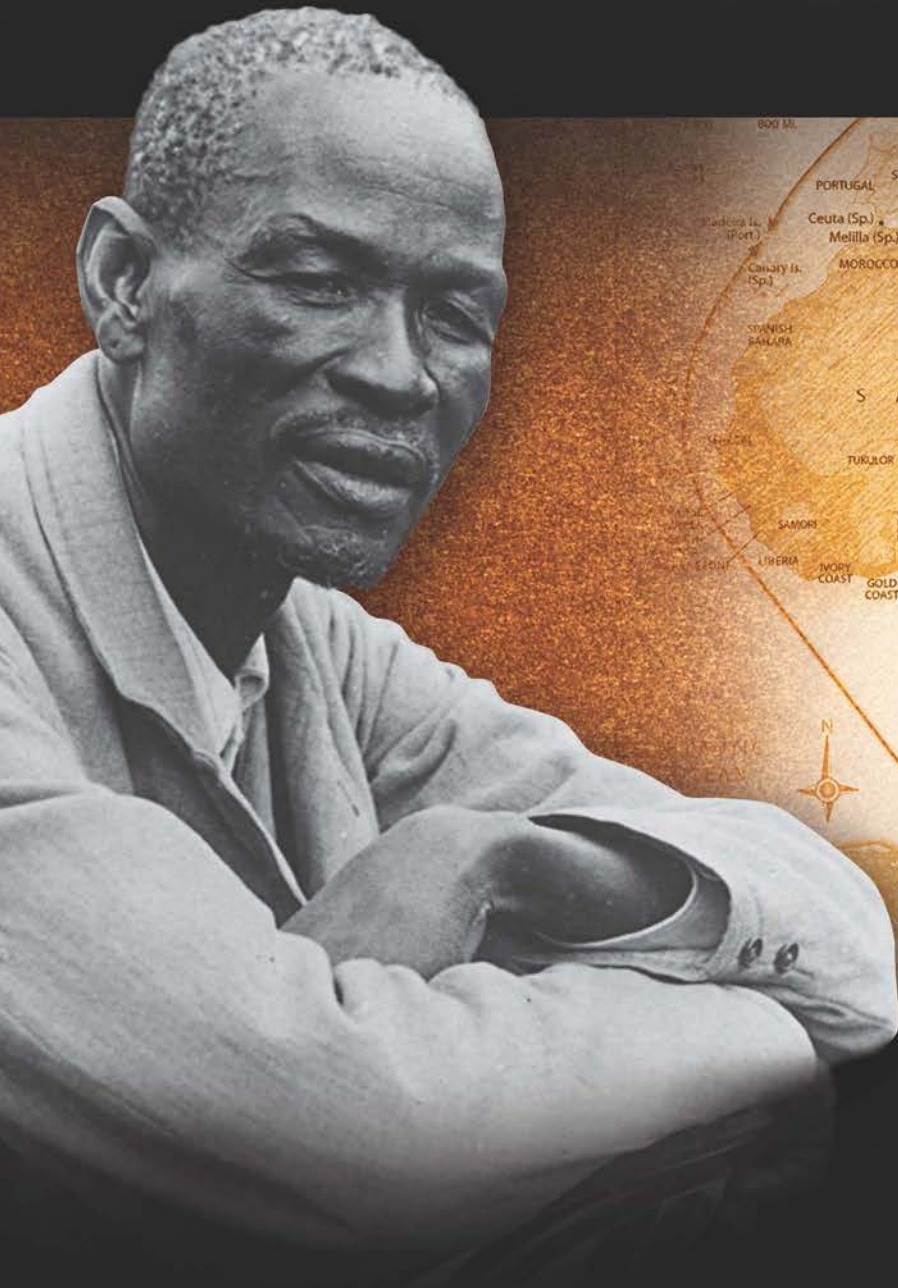


VOYAGES

in World History **Third Edition**



Valerie Hansen
Kenneth R. Curtis



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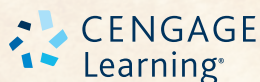
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Valerie Hansen

YALE UNIVERSITY

Kenneth R. Curtis

CALIFORNIA STATE UNIVERSITY LONG BEACH



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Brief Contents

1	The Peopling of the World, to 4000 B.C.E.	<i>2</i>
2	The First Complex Societies in the Eastern Mediterranean, ca. 4000–550 B.C.E.	<i>28</i>
3	Ancient India and the Rise of Buddhism, 2600 B.C.E.–100 C.E.	<i>60</i>
4	Blueprint for Empire: China, 1200 B.C.E.–220 C.E.	<i>88</i>
5	The Americas and the Islands of the Pacific, to 1200 C.E.	<i>116</i>
6	New Empires in Iran and Greece, 2000 B.C.E.–651 C.E.	<i>144</i>
7	The Roman Empire and the Rise of Christianity, 509 B.C.E.–476 C.E.	<i>178</i>
8	Hindu and Buddhist States and Societies in Asia, 100–1000	<i>212</i>
9	Islamic Empires of Western Asia and Africa, 600–1258	<i>244</i>
10	The Multiple Centers of Europe, 500–1000	<i>274</i>
11	Expanding Trade Networks in Africa and India, 1000–1500	<i>306</i>
12	China’s Commercial Revolution, ca. 900–1276	<i>338</i>
13	Europe’s Commercial Revolution, 1000–1400	<i>368</i>
14	The Mongols and Their Successors, 1200–1500	<i>400</i>
15	Maritime Expansion in the Atlantic World, 1400–1600	<i>434</i>
16	Maritime Expansion in Afro-Eurasia, 1500–1700	<i>468</i>
17	Religion, Politics, and the Balance of Power in Western Eurasia, 1500–1750	<i>498</i>
18	Empires, Colonies, and Peoples of the Americas, 1600–1750	<i>530</i>
19	The Atlantic System: Africa, the Americas, and Europe, 1550–1807	<i>558</i>
20	Empires in Early Modern Asia, 1650–1837	<i>588</i>
21	European Science and the Foundations of Modern Imperialism, 1600–1820	<i>618</i>
22	Revolutions in the West, 1750–1830	<i>648</i>
23	The Industrial Revolution and European Politics, 1765–1880	<i>682</i>
24	The Challenge of Modernity in China, Japan, and India, 1800–1910	<i>714</i>
25	State Building and Social Change in the Americas, 1830–1910	<i>744</i>
26	The New Imperialism in Africa and Southeast Asia, 1830–1914	<i>776</i>
27	War, Revolution, and Global Uncertainty, 1905–1928	<i>806</i>
28	Responses to Global Crisis, 1920–1939	<i>840</i>
29	The Second World War and the Origins of the Cold War, 1939–1949	<i>872</i>
30	The Cold War and Decolonization, 1949–1975	<i>900</i>
31	Toward a New World Order, 1975–2000	<i>932</i>
32	Voyage into the Twenty-First Century	<i>966</i>

Contents

Maps *xxi*

Visual Evidence in Primary Sources *xxii*

Movement of Ideas Through Primary

Sources *xxii*

World History in Today's World *xxiii*

Preface *xxiv*

About the Authors *xxx*

Note on Spelling *xxx*



CHAPTER 1

The Peopling of the World, to 4000 B.C.E.

2

Traveler: *Mungo Man*

The First Anatomically Modern Humans in Africa, ca. 200,000 B.C.E. 4

Predecessors to the First Anatomically Modern Humans 4

Anatomically Modern Humans 5

The Beginnings of Modern Human Behavior 6

How Modern Humans Populated Asia, Australia, and Europe 7

The Settling of Asia, 80,000–60,000 B.C.E. 7

The Settling of Australia, ca. 50,000 B.C.E. 7

VISUAL EVIDENCE: *The First Art Objects in the World* 8

The Settling of Europe, 50,000–25,000 B.C.E. 10

MOVEMENT OF IDEAS: *The Worship of Goddesses?* 12

Coexisting with Neanderthals 13

The Settling of the Americas, ca. 14,000–12,000 B.C.E. 15

Monte Verde, Chile: How the First Americans Lived, 12,000 B.C.E. 16

The Rise of Clovis and Other Regional Traditions, 11,000 B.C.E. 18

The Emergence of Agriculture, 9400–3000 B.C.E. 18

The Rise of Clovis and Other Regional Traditions, 11,000 B.C.E. 18

WORLD HISTORY IN TODAY'S WORLD: *The Unquenchable Demand for Ivory* 19

The Domestication of Plants and Animals, ca. 9400–7000 B.C.E. 21

The First Larger Settlements, 7000–3000 B.C.E. 23

CONTEXT AND CONNECTIONS 26



CHAPTER 2

The First Complex Societies in the Eastern Mediterranean, ca. 4000–550 B.C.E.

28

Traveler: *Gilgamesh*

The Emergence of Complex Society in Mesopotamia, ca. 3100–1590 B.C.E. 30

Complex Societies and the Discipline of History 31

City Life in Ancient Mesopotamia 32

WORLD HISTORY IN TODAY'S WORLD: *Recreating the World's Oldest Brew* 34

The Beginnings of Writing, 3300 B.C.E. 35

Sumerian Religion 36

Sumerian Government 37

The Babylonian Empire, 1894–1595 B.C.E. 38

Egypt During the Old and Middle Kingdoms, ca. 3100–1500 B.C.E. 40

The Central Role of the Nile 40

Egyptian Government and Society: Unity Without City-States 41

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The Old Kingdom and Egyptian Belief in the Afterlife, 2686–2181 B.C.E. 43
 Egyptian Expansion During the Middle Kingdom, 2040–1782 B.C.E. 44
The International System, 1500–1150 B.C.E. 45
 New Kingdom Egypt and Nubia, 1570–1069 B.C.E. 45
 The Kingdom of Nubia, 800 B.C.E.–350 C.E. 47
 The Hittites, 2000–1200 B.C.E., and the Durability of Trade 48
VISUAL EVIDENCE: *Reading the Mummy of Hornedjitef: High Priest at Karnak* 50

Syria-Palestine and New Empires in Western Asia, 1200–500 B.C.E. 52
 Weighing Archaeology and the Bible to Reconstruct the Ancient Hebrew Past 52
MOVEMENT OF IDEAS: *The Flood Narrative in the Epic of Gilgamesh and the Hebrew Bible* 54
 The Assyrian Empire, 911–612 B.C.E. 56
 The Babylonian Captivity and the Recording of the Bible, 612–539 B.C.E. 56
CONTEXT AND CONNECTIONS 57

CHAPTER 3

Ancient India and the Rise of Buddhism, 2600 B.C.E.–100 C.E. 60

Traveler: *Ashoka*

The Origins of Complex Society in South Asia, 2600–500 B.C.E. 62
 Complex Society in the Indus River Valley, 2600–1700 B.C.E. 63
 The Spread of Indo-European Languages 65
 The Indo-European Migrations and Vedic Culture, 1500–1000 B.C.E. 67
WORLD HISTORY IN TODAY'S WORLD: *Whose History of Hinduism Is Correct?* 69
 Changes After 1000 B.C.E. 70
The Rise of Buddhism 72
 The Life of the Buddha 72

The Teachings of the Buddha 72
The Mauryan Empire, ca. 320–185 B.C.E. 74
 Life and Society in the Mauryan Dynasty, ca. 300 B.C.E. 75
VISUAL EVIDENCE: *The Buddhist Stupa at Kanaganahalli* 76
 Mauryan Control Outside the Capital 78
 Ruling by Example: The Ceremonial State 80
MOVEMENT OF IDEAS: *The First Sermon of the Buddha and Ashoka's Fourth Major Rock Edict* 82
South Asia's External Trade 84
CONTEXT AND CONNECTIONS 86



CHAPTER 4

Blueprint for Empire: China, 1200 B.C.E.–220 C.E. 88

Traveler: *Sima Qian, the Grand Historian*

The Origins of Chinese Civilization, 1200–221 B.C.E. 90
 Early Agriculture, Technology, and Cuisine to 1200 B.C.E. 90
WORLD HISTORY IN TODAY'S WORLD: *The World's Oldest Soup* 92

Early Chinese Writing in the Shang Dynasty, ca. 1200 B.C.E. 93
 Shang Dynasty Relations with Other Peoples 94
 The Zhou Dynasty, 1045–256 B.C.E. 95
 Confucianism 96
 Daoism 97

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MOVEMENT OF IDEAS: *The Analects and the Qin Emperor's Stone Texts* 98

Qin Rulers Unify China, 359–207 B.C.E. 100

Prime Minister Shang Yang's Reforms
359–221 B.C.E. 100

The Policies of the First Emperor,
221–210 B.C.E. 101

Legalism and the Laws of the Qin Dynasty 103

VISUAL EVIDENCE: *The Terracotta Warriors of the Qin Founder's Tomb* 104

The Han Empire, 206 B.C.E.–220 C.E. 107

Han Government and the Imperial
Bureaucracy 108

Ban Zhao's *Lessons for Women* 110

Extending Han Rule to Mongolia, Vietnam,
and Korea 110

Conflict and Contact: The Han Dynasty and
the Xiongnu Nomads, 201–60 B.C.E. 111

Han Expansion to the North, Northwest,
and South 112

CONTEXT AND CONNECTIONS 114



CHAPTER 5

The Americas and the Islands of the Pacific, to 1200 C.E. 116

Traveler: *Mau Piailug*

The First Complex Societies of
Mesoamerica, 5000 B.C.E.–500 C.E. 118

The Development of Agriculture,
5000–1500 B.C.E. 119

The Olmec and Their Successors,
1200–400 B.C.E. 120

Teotihuacan, ca. 200 B.C.E.–600 C.E. 121

VISUAL EVIDENCE: *The Imposing Capital of Teotihuacan* 122

The Maya, 300 B.C.E.–1200 C.E. 124

The Major Periods of Maya History
and Maya Writing 124

Maya Government and Society 125

The Religious Beliefs of the Maya 126

War, Politics, and the Decline
of the Maya 127

MOVEMENT OF IDEAS: *The Ballgame in Popul Vuh* 128

The Northern Peoples, 500 B.C.E.–1200 C.E. 131

The Peoples of the Andes,
3100 B.C.E.–1000 C.E. 132

The Polynesian Voyages of Exploration,
1000 B.C.E.–1350 C.E. 134

The Settlement of the Polynesian Triangle
Polynesian Seafaring Societies 136

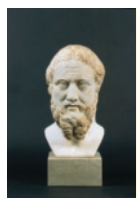
WORLD HISTORY IN TODAY'S WORLD:
Single- and Double-Hulled Canoes 137

Traditional Polynesian Navigation
Techniques 138

The Mystery of Easter Island 139

The Impact of Humans on New Zealand 141

CONTEXT AND CONNECTIONS 141



CHAPTER 6

New Empires in Iran and Greece, 2000 B.C.E.–651 C.E. 144

Traveler: *Herodotus*

The Rise of the Achaemenids in Iran,
1000–330 B.C.E. 147

Zoroastrianism 148

The Military Success of the Persian Empire,
550–486 B.C.E. 149

WORLD HISTORY IN TODAY'S WORLD: *The Cyrus Cylinder* 151

Darius's Coup, 522 B.C.E. 152
 Darius's Administration 154
Ancient Greece and the Mediterranean World, 2000–334 B.C.E. 155
 Greek Expansion in the Mediterranean, 2000–1200 B.C.E. 155
VISUAL EVIDENCE: *The Parade of Nations at Darius's Palace at Persepolis* 156
 The Phoenicians and the World's First Alphabet 158
 The Rise of the Greek City-State, 800–500 B.C.E. 160
 The Greco-Persian Wars, 490–479 B.C.E. 161
 Culture and Politics in Athens, 480–404 B.C.E. 163

Athens as a Center for the Study of Philosophy 165
Alexander the Great and His Successors, 334–30 B.C.E. 166
 Philip and Alexander: From Macedon to Empire, 359–323 B.C.E. 167
 The Hellenistic Legacy of Alexander the Great 167
MOVEMENT OF IDEAS: *Alexander's Hellenistic Policies in Central Asia* 170
The Parthians and the Sasanians, Heirs to the Persians, 247 B.C.E.–651 C.E. 172
CONTEXT AND CONNECTIONS 176



CHAPTER **7**
The Roman Empire and the Rise of Christianity, 509 B.C.E.–476 C.E.

178

Traveler: *Egeria*

The Roman Republic, 509–27 B.C.E. 181
 Early Rome to 509 B.C.E. 181
 The Early Republic and the Conquest of Italy, 509–272 B.C.E. 182
 The Conquest of the Mediterranean World, 272–146 B.C.E. 182
 Roman Society Under the Republic 185
 The Late Republic, 146–27 B.C.E. 186
The Roman Principate, 27 B.C.E.–284 C.E. 187
 The Political Structure of the Principate 188
 The Social Changes of the Principate 188
VISUAL EVIDENCE: *The Emperor Hadrian's Villa* 190
 Travel and Knowledge of the Outside World 192
The Rise of Christianity, ca. 30–284 194
 Roman Religion and Judaism 194

The Life and Teachings of Jesus, ca. 4 B.C.E.–30 C.E. 195
 The Early Church and the Travels of Paul 196
MOVEMENT OF IDEAS: *Early Christianity in the Eastern Provinces* 198
The Loss of the Western Provinces and the Rise of the Eastern Empire, 284–476 200
 Political Changes of the Late Empire 200
 Religious Changes of the Late Empire 201
 Christianity in North Africa 203
WORLD HISTORY IN TODAY'S WORLD: *Christianity Shifts Southward* 204
 Invasions by Neighboring Peoples 205
 Economic Change in the Empire 207
 The Eastward Shift of the Empire's Center 208
CONTEXT AND CONNECTIONS 209



CHAPTER 8

Hindu and Buddhist States and Societies in Asia, 100–1000

212

Traveler: *Ennin*

Buddhism, Hinduism, and Indian Rulers,
100–1000 215

The Rise of Greater Vehicle Teachings in
Buddhism 215

The Rise of Hinduism, 300–900 216

The Beginnings of the Chola Kingdom,
ca. 900 217

Buddhism, Hinduism, and Southeast Asian
Rulers, 300–1000 219

Buddhist Kingdoms Along the Trade Routes 219

Buddhist and Hindu Kingdoms of Inland
Southeast Asia, 300–1000 221

VISUAL EVIDENCE: *Borobudur: A Buddhist
Monument in Java, Indonesia* 222

Buddhism and the Revival of Empire in
China, 100–1000 225

Buddhism in China, 100–589 225

China Reunified, 589–907 227

MOVEMENT OF IDEAS: *Teaching Buddhism in
a Confucian Society* 228

The Long Decline of the Tang Dynasty,
755–907 230

WORLD HISTORY IN TODAY'S WORLD: *Buddhism
Declines in Thailand* 232

The Tibetan Empire, ca. 617–ca. 842 235

Buddhism and the Tang Blueprint for Rule
in Korea and Japan, to 1000 235

Buddhism and Regional Kingdoms
in Korea 236

The Emergence of Japan 238

CONTEXT AND CONNECTIONS 241



CHAPTER 9

Islamic Empires of Western Asia and Africa, 600–1258

244

Traveler: *Khaizuran*

The Origins of Islam and the First Caliphs,
610–750 246

The Life and Teachings of Muhammad,
ca. 570–632 246

The First Caliphs and the Sunni-Shi'ite Split,
632–661 250

Early Conquests and the Spread of Islam,
632–661 251

MOVEMENT OF IDEAS: *The Five Pillars of
Islam* 252

The Umayyad Caliphate, 661–750 254

The Conquest of North Africa, 661–750 254

The Unified Abbasid Caliphate, 750–945 255

Baghdad, City of Learning 256

Abbasid Governance 258

Abbasid Society 258

Slavery 260

Politics of the Harem 260

The Breakup of the Abbasid Empire,
809–936 261

The Rise of Regional Centers,
945–1258 263

Regional Islamic States 263

VISUAL EVIDENCE: *Zubaydah's Road* 264

Ibn Jubayr's Hajj in 1183 266

WORLD HISTORY IN TODAY'S WORLD: *Preventing
Disease Among Hajj Pilgrims* 269

CONTEXT AND CONNECTIONS 271



CHAPTER 10

The Multiple Centers of Europe, 500–1000

274

Traveler: *Gudrid and Thorfinn Karlsefni*

Byzantium, the Eastern Roman Empire,
476–1071 277

Justinian and the Legacy of Rome, 476–565 277
The Impact of the Plague and the Arab
Conquests, 541–767 279

WORLD HISTORY IN TODAY'S WORLD: *The Plague
Bacteria Lives On* 280

Religion and State, 767–1071 281

The Germanic-Speaking Peoples of Western
Europe, 481–1000 282

Germanic-Speaking Europeans Before 500 283

The Merovingians, 481–751 284

Charlemagne and the Carolingians,
751–ca. 1000 286

The Age of the Vikings, 793–1066 288

Viking Raids on Great Britain 289

Scandinavian Society 291

Pre-Christian Scandinavian Religion 293

The Scandinavian Migrations to Iceland and
Greenland, 870–980 294

The Scandinavians in Vinland, ca. 1000 294

VISUAL EVIDENCE: *The Scandinavian Settlement
at L'Anse aux Meadows* 296

Russia, Land of the Rus, to 1054 298

The Peoples Living in Russia 299

MOVEMENT OF IDEAS: *Ibn Fadlan's Description
of a Rus Burial* 300

Kievan Rus, 880–1054 302

The Growing Divide Between the Eastern
and Western Churches 303

CONTEXT AND CONNECTIONS 304



CHAPTER 11

Expanding Trade Networks in Africa and India,
1000–1500

306

Traveler: *Ibn Battuta*

Reconstructing the History of Sub-Saharan
Africa Before 1000 308

The Geography and Languages of Sub-Saharan
Africa 308

The Spread of Bantu Languages 309

Society and Family Life 311

The Kingdom of Mali and Its Precursors in
Sub-Saharan Africa 312

The Kingdom of Ghana, ca. 700–1000 313

Jenne-jeno: A Different Path to Complex
Society 313

Sundiata and the Founding of the Mali
Kingdom, ca. 1230 315

Trans-Saharan Trade Networks 318

Society in Mali 319

MOVEMENT OF IDEAS: *Conversion to Islam in
Fictional and Nonfictional Sources* 320

Islamic North Africa and the Mamluk
Empire 322

The Sultanates of North Africa 323

The Mamluk Empire, 1250–1517 323

WORLD HISTORY IN TODAY'S WORLD: *Legal
Reform in Morocco* 324

Cairo: Baghdad's Successor as the Cultural
Capital of the Islamic World 325

The Outbreak of Plague in Damascus, 1348 326

East Africa, India, and the Trade Networks of the Indian Ocean 327

The East African Coast 327

Great Zimbabwe and Its Satellites, ca. 1275–1550 330

The Delhi Sultanate and the Hindu Kingdoms of Southern India 330

VISUAL EVIDENCE: *The Ruins of Great Zimbabwe* 332

CONTEXT AND CONNECTIONS 336



CHAPTER **12**
China's Commercial Revolution, ca. 900–1276 338

Traveler: *Li Qingzhao*

The Five Dynasties Period and the Song Dynasty, 907–1276 340

The Rise of the Northern Song Dynasty, 960–1126 341

The Collapse of the Northern Song, 1126–1127 341

China Divided: The Jin and the Southern Song, 1127–1234 343

The Commercial Revolution in China 344

Changes in Agriculture and the Rise of the South 345

The Currency of the Song Dynasty 346

Iron and Steel 346

Urban Life amid Commercial Prosperity 347

Footbinding 349

The Changing Lives of Women in China's Commercial Revolution 349

VISUAL EVIDENCE: *The Commercial Vitality of a Chinese City* 350

Book Publishing and the Education Boom 353

Woodblock Printing and the Invention of Movable Type 353

The Growth of Civil Service Examinations 355

WORLD HISTORY IN TODAY'S WORLD: *Chinese Students Take the SAT* 357

Religious Life During the Song 358

Day-to-Day Religious Life 359

Vietnam, Korea, Japan, and the World Beyond 360

Technological Breakthroughs 360

The World Beyond East Asia 360

Vietnam During the Song Dynasty 361

MOVEMENT OF IDEAS: *Chinese Knowledge of the World's Islands in 1225* 362

Korea Under the Koryo Dynasty 364

Transition to the Kamakura Shogunate in Japan 365

CONTEXT AND CONNECTIONS 365



CHAPTER **13**
Europe's Commercial Revolution, 1000–1400 368

Traveler: *Abelard and Heloise*

The Cerealization and Urbanization of Europe 370

Agricultural Innovation 370

Population Growth and Urbanization 372

VISUAL EVIDENCE: *The Gothic Cathedral at Chartres* 374

Land Use and Social Change, 1000–1350 376

The Rise of the European Universities,
1100–1400 377

WORLD HISTORY IN TODAY'S WORLD: *Debating
the Downton Abbey Law* 377

Education in Europe Before the Universities,
ca. 1100 377

The Import of Learning and Technology from
the Islamic World, 1150–1250 380

The Universities Come of Age, 1150–1250 381

MOVEMENT OF IDEAS: *Fibonacci's New System
for Writing Numbers* 382

The Movement for Church Reform,
1000–1300 384

The Structure of the Church 385

Reform from Above 385

Reform Within the Established Monastic
Orders 386

Reform Outside the Established Orders 387

The Crusades, 1095–1291 387

The Crusades to the Holy Land 388

The Crusades Within Europe 392

Disaster and Recovery, 1300–1400 393

Continuing Expansion of Trade Outside
Europe 393

Rural Famines and the Black Death 395

The Hundred Years' War and Monarchy
in England and France 396

CONTEXT AND CONNECTIONS 397



CHAPTER 14

The Mongols and Their Successors, 1200–1500

400

Traveler: *William of Rubruck*

From Nomads to World Conquerors,
1200–1227 402

The Mongols' Nomadic Way of Life Before
1200 403

Religious Practices of the Mongols 403
Mongol Society 403

The Rise of Chinggis Khan 404

Conquests Under Chinggis 405

Mongol Governance 406

The United Mongol Empire After Chinggis,
1229–1260 407

The Reign of Ögödei, 1229–1241 407

The Postal Relay System 408

WORLD HISTORY IN TODAY'S WORLD: *The World's
Longest Horse Race* 410

MOVEMENT OF IDEAS: *A Debate Among
Christians, Buddhists, and Muslims at the
Mongol Court* 412

The Empire Comes Apart, 1259–1263 414

Successor States in Western Asia,
1263–1500 415

The Il-khanate, the Qipchaq Khanate, and the
Rise of Moscow 417

The Chaghatai Khanate and Timur the
Lame 418

The Ottomans, 1300–1500 419

The Rise of the Ottomans, 1300–1400 420

The Ottoman Conquest of Constantinople,
1453 421

East Asia During and After Mongol Rule,
1263–1500 423

The Conquests of Khubilai Khan and Their
Limits 424

The First Ming Emperors, 1368–1405 426

The Chinese Voyages to South and Southeast
Asia and Africa, 1405–1433 427

VISUAL EVIDENCE: *State-of-the-Art Cartography
in the 1400s* 428

CONTEXT AND CONNECTIONS 431



CHAPTER 15

Maritime Expansion in the Atlantic World, 1400–1600

434

Traveler: *Bernardino de Sahagún*

The Aztec Empire of Mexico, 1325–1519 436

Sahagún's Research Method 437

The Mexica Settlement of Tenochtitlan 438

Nahua Religion 439

The Military and the Conquests of the Mexica 440

Nahua Society 440

The Inca Empire, 1400–1532 441

Inca Religion and Andean Society 442

The Inca Expansion 443

WORLD HISTORY IN TODAY'S WORLD:

The Great Road Reunites Six Nations 445

Inca Rule of Subject Populations 445

Intellectual and Geographic Exploration in Europe, 1300–1500 447

The Rise of Humanism 447

Europe's First Movable Type 449

Early European Exploration in the Mediterranean and the Atlantic, 1350–1440 449

The Portuguese Slave Trade After 1444 451

The Iberian Conquest of Mexico, Peru, and Brazil, 1492–1580 452

Columbus's First Voyage to the Americas, 1492 453

A Comparison of Columbus's and Zheng He's Voyages 454

VISUAL EVIDENCE: *Comparing Zheng He's and Columbus's Ships* 456

Spanish Exploration After Columbus's First Voyage, 1493–1517 458

The Conquest of Mexico, 1517–1540 458

The Spanish Conquest of Peru, 1532–1550 460

The Portuguese Settlement of Brazil, 1500–1580 461

The Structure of Empire and the Encomienda System 461

MOVEMENT OF IDEAS: *The Sacrifice of Isaac: A Sixteenth-Century Nahuatl Play* 462

The Columbian Exchange 464

CONTEXT AND CONNECTIONS 466



CHAPTER 16

Maritime Expansion in Afro-Eurasia, 1500–1700

468

Traveler: *Matteo Ricci*

Maritime Trade Connections: Europe, the Indian Ocean, and Africa, 1500–1660 471

Portugal's Entry into the Indian Ocean, 1498–1600 471

The Dutch East India Company, 1600–1660 474

Africa and the Atlantic Ocean, 1483–1660 477

VISUAL EVIDENCE: *An Ivory Mask from Benin, West Africa* 478

Empires of Southern and Eastern Asia, 1500–1660 480

The Rise of Mughal India, 1526–1627 480

The Apogee and Decline of Ming China, 1500–1644 482

Tradition and Innovation: Korea, Vietnam, Japan, and Siam, 1500–1650 483

Eurasian Intellectual and Religious Encounters, 1500–1620 486

Challenges to Catholicism, 1517–1620 487
 MOVEMENT OF IDEAS: *Iranians and Europeans at the Court of Siam* 488
 Islam, Sikhism, and Akbar’s “Divine Faith,” 1500–1605 490

Ricci in China: Catholicism Meets Neo-Confucianism, 1582–1610 491
 WORLD HISTORY IN TODAY’S WORLD: *Christianity in China* 494
 CONTEXT AND CONNECTIONS 495



CHAPTER **17**

Religion, Politics, and the Balance of Power in Western Eurasia, 1500–1750

498

Traveler: *Evliya Çelebi*

Ottoman Power and Safavid Challenge 501
 The Ottoman Empire, 1500–1650 502
 The Shi’ite Challenge: Foundations of Safavid Iran, 1500–1629 505
 Safavid Collapse and Ottoman Persistence, 1650–1750 507
 MOVEMENT OF IDEAS: *A French View of the Iranians* 508
 The Mystical Path: Sufism in Early Modern Islam 510
 Religion and Politics in Western Europe 511
 WORLD HISTORY IN TODAY’S WORLD: *Pope Francis, Europe, and the World* 512

The Habsburgs: Imperial Ambitions and Political Realities, 1519–1648 512
 Religious Conflict and Political Control in France and England, 1500–1715 517
 Between East and West: Russians, Jews, and Armenians 520
 The Rise of the Russian Empire, 1500–1725 520
 VISUAL EVIDENCE: *European and Asian Influences in Russian Architecture* 522
 The Jewish and Armenian Diasporas 524
 The Shifting Balance of Power in Western Eurasia by 1750 525
 CONTEXT AND CONNECTIONS 528



CHAPTER **18**

Empires, Colonies, and Peoples of the Americas, 1600–1750

530

Traveler: *Catalina de Erauso*

The Americas in Global Context: The Spanish Empire, 1600–1700 532
 From Conquest to Control 533
 Colonial Society: Gender and Race on the Margins of Empire 537
 WORLD HISTORY IN TODAY’S WORLD: *Indigenous Studies and Indigenous Languages* 538
 Brazil, the Dutch, New France, and England’s Mainland Colonies 542
 The Portuguese and Brazil 542

The Dutch in the Americas 544
 New France, 1608–1754 545
 Mainland English Colonies in North America 546
 MOVEMENT OF IDEAS: *Prospero and Caliban* 548
 Comparisons Across the Colonial Americas 550
 VISUAL EVIDENCE: *Catholic and Protestant Churches in the Americas* 552
 CONTEXT AND CONNECTIONS 555



CHAPTER 19

The Atlantic System: Africa, the Americas, and Europe, 1550–1807

558

Traveler: *Olaudah Equiano*African History and Afro-Eurasian
Connections, 1550–1700 560Africa and the Americas: The Plantation
Complex 565

The Economics of Plantation Production 565

WORLD HISTORY IN TODAY'S WORLD:

Twenty-One Million Slaves 566

African Culture and Resistance to Slavery 569

Effects of the Atlantic Slave Trade
on West Africa 572Europe and the Atlantic World,
1650–1807 576Economic and Military Competition in the
Atlantic Ocean, 1650–1763 576Life on the Eighteenth-Century Atlantic
Ocean 579MOVEMENT OF IDEAS: *Sugar in British
Politics* 580Abolition of the British Slave Trade,
1772–1807 582VISUAL EVIDENCE: *The Horrors of the Middle
Passage* 584

CONTEXT AND CONNECTIONS 586



CHAPTER 20

Empires in Early Modern Asia, 1650–1837

588

Traveler: *Rammohun Roy*The Power of the Qing Dynasty,
1644–1796 591

Establishment of Qing Rule, 1636–1661 591

The Age of Three Emperors, 1661–1796 593

The World of Women in Qing China 593

The Qing Empire and Its Borderlands 595

WORLD HISTORY IN TODAY'S WORLD:

The Train to Tibet 597

Qing Trade and Foreign Relations 597

The Russian Empire, 1725–1800 599

Russian Imperial Expansion, 1725–1800 599

Reform and Repression, 1750–1796 601

MOVEMENT OF IDEAS: *Petitioning Catherine
the Great* 602India: From Mughal Empire to British Rule,
1650–1833 603Aurangzeb and the Decline of Mughal
Authority, 1658–1757 604Foundations of British Rule,
1739–1818 606VISUAL EVIDENCE: *Colonel Mordaunt's
Cockfight* 608Rammohun Roy: Liberal Imperialism and the
Bengali Renaissance 610

Tokugawa Japan, 1630–1837 612

Stability and Prosperity in Early Tokugawa
Japan, 1630–1710 612Challenges, Reform, and Decline,
1710–1790 613Tokugawa Japan and the Outside World,
1790–1837 615

CONTEXT AND CONNECTIONS 616



CHAPTER **21**
**European Science and the Foundations
of Modern Imperialism, 1600–1820**

618

Traveler: *Joseph Banks*

From Scientific Revolution to Practical
Science, 1600–1800 620

The Development of the Scientific Method 621

MOVEMENT OF IDEAS: *A Japanese View of
European Science* 624

Practical Science: Economic Botany,
Agriculture, and Empire 626

WORLD HISTORY IN TODAY'S WORLD: *Museums,
Science, and Empire* 629

Measuring and Mapping: Exploration
and Imperialism in Africa, India, and
the Americas, 1763–1820 629

Practical Science: The Royal Society and
the Quest for Longitude 629

Mapping Africa, Central Asia, India,
and the Americas 632

Oceania and Australia, 1770–1820 635

Captain Cook in Polynesia, 1769–1779 635

Joseph Banks and the Settlement of
Australia 637

VISUAL EVIDENCE: *The Death of
Captain Cook* 638

The European Enlightenment,
1700–1800 640

“Enlightened” Ideas: Politics, Economics,
and Society 640

Enlightenment and Reform 644

CONTEXT AND CONNECTIONS 645



CHAPTER **22**
Revolutions in the West, 1750–1830

648

Traveler: *Simón Bolívar*

Rebellion and Independence in America,
1763–1797 651

Rebellion and War, 1763–1783 651

Creating a Nation, 1783–1797 653

The French Revolution, 1789–1815 655

Louis XVI and the Early Revolution,
1789–1792 655

VISUAL EVIDENCE: *Portraits of Power: George
Washington and Napoleon Bonaparte* 656

The Jacobins and the Reign of Terror,
1793–1795 660

The Age of Napoleon, 1795–1815 661

MOVEMENT OF IDEAS: *Edmund Burke's
Reflections on the French Revolution* 662

The Haitian Revolution, 1791–1804 667

The Latin American Wars of Independence,
1800–1824 669

Francisco Miranda, Simón Bolívar,
and South American Independence 669

WORLD HISTORY IN TODAY'S WORLD:
*Competing Visions of South American
Cooperation* 670

Mexico, 1810–1821 674

Brazil and the Caribbean, 1808–1835 674

Revolutionary Outcomes and Comparisons
to 1830 676

CONTEXT AND CONNECTIONS 679



CHAPTER 23

The Industrial Revolution and European Politics,
1765–1880

682

Traveler: *Mikhail Bakunin*The Industrial Revolution: Origins and
Global Consequences, 1765–1870 685Origins of the Industrial Revolution,
1765–1850 686WORLD HISTORY IN TODAY'S WORLD: *The
Anthropocene: A New Geological Epoch?* 687Global Dimensions of the Industrial Revolution,
1820–1880 688Reform and Revolution in Nineteenth-
Century Europe, 1815–1880 691Nineteenth-Century Ideologies: Liberalism,
Socialism, Romanticism, Anarchism,
and Nationalism 691

Victorian Britain, 1815–1867 693

France: Revolution, Republic, and Empire 695

VISUAL EVIDENCE: *The Great Exhibition and the
Crystal Palace* 696

The Habsburg Monarchy, 1848–1870 698

The Unification of Italy, 1848–1870 699

Germany: Nationalism and Unification,
1848–1871 700New Paradigms of the Industrial Age:
Marx and Darwin 702

Karl Marx, Socialism, and Communism 702

Charles Darwin, Evolution, and Social
Darwinism 704Challenges to Reform in the Russian
and Ottoman Empires, 1825–1881 705

Emancipation and Reaction in Russia 705

MOVEMENT OF IDEAS: *Religious Leaders
Comment on Science and Progress* 706

Reform and Reaction in the Ottoman Empire 710

CONTEXT AND CONNECTIONS 712



CHAPTER 24

The Challenge of Modernity in China, Japan, and India,
1800–1910

714

Traveler: *Fukuzawa Yukichi*

China's World Inverted, 1800–1906 717

Qing China Confronts the Industrial World,
1800–1850 717

The Taiping Rebellion, 1850–1864 718

“Self-Strengthening” and the Boxer Rebellion,
1842–1901 720VISUAL EVIDENCE: *The Boxer Rebellion:
American and French Views* 724

The Rise of Modern Japan, 1830–1905 726

Late Tokugawa Society, 1830–1867 726

The Meiji Restoration, 1867–1890 728

Japanese Imperialism, 1890–1910 731

WORLD HISTORY IN TODAY'S WORLD:
Senkaku or Diaoyu Islands? 732

British India, 1818–1905 733

The Last Phase of Company Rule in India,
1835–1857 734The Indian Revolt of 1857 and Its
Aftermath 735MOVEMENT OF IDEAS: *Religion and Rebellion:
India in 1858* 736The Origins of Indian Nationalism,
1885–1906 738

CONTEXT AND CONNECTIONS 742



CHAPTER **25**

State Building and Social Change in the Americas, 1830–1910

744

Traveler: *Pauline Johnson-Tekahionwake*

Political Consolidation in Canada and the United States 747

- Confederation in Canada 747
- Sectionalism and Civil War in the United States 750

MOVEMENT OF IDEAS: Alexis de Tocqueville’s Democracy in America 752

The Gilded Age 755

Reform and Reaction in Latin America 757

- Economic Dependency in Latin America 758
- Conservatives, Liberals, and the Struggle for Stability in Mexico 758

WORLD HISTORY IN TODAY’S WORLD: The Roller Coaster of Commodity Prices 759

- Spanish-Speaking South America 762
- From Empire to Republic in Brazil 763

The Nineteenth-Century Americas in Perspective 765

- The Fates of Indigenous Societies 765
- Immigration, Abolition, and Race 769

VISUAL EVIDENCE: The Residential School System for First Nations Children 770

Gender and Women’s Rights 772

CONTEXT AND CONNECTIONS 774



CHAPTER **26**

The New Imperialism in Africa and Southeast Asia, 1830–1914

776

Traveler: *King Khama III*

The New Imperialism 778

- Political and Economic Motives 779
- Ideology and Personal Ambition 780

MOVEMENT OF IDEAS: Pan-Africanism and African Identity 782

Africa and the New Imperialism 784

- Western and Eastern Africa 784
- Southern Africa 788
- African Resistance to Conquest 791

The New Imperialism in Southeast Asia, Austronesia, and the Pacific 793

Mainland Southeast Asia 793

Insular Southeast Asia, Austronesia, and the Pacific 795

Case Studies in Imperialism 797

A Case Study of the New Imperialism: Rubber 797

VISUAL EVIDENCE: National Flags 798

Enduring Monarchies: Ethiopia and Siam 800

WORLD HISTORY IN TODAY’S WORLD: Political Conflict and the Thai Monarchy 802

CONTEXT AND CONNECTIONS 804



CHAPTER 27

War, Revolution, and Global Uncertainty, 1905–1928

806

Traveler: *Emma Goldman*

World War I as Global “Total” War 809

Causes of World War I, 1890–1914 809

Total War in Europe: The Western and Eastern Fronts 811

WORLD HISTORY IN TODAY’S WORLD: *From “Shell Shock” to Posttraumatic Stress Disorder* 812

Total War: Global Dimensions 814

The End of the Great War 816

The Postwar Settlements 817

The Paris Peace Conference 817

MOVEMENT OF IDEAS: *Dissenting Voices at the Paris Peace Conference* 818

The Weimar Republic and Nation Building in Europe 821

The Mandate System in Africa and the Middle East 822

Twentieth-Century Revolutions: Mexico, China, and Russia 825

Consequences of the Mexican Revolution, 1919–1927 825

The Chinese Revolution 826

Russia’s October Revolution 827

Civil War and the New Economic Policy, 1917–1924 830

Stalin and “Socialism in One Country” 831

VISUAL EVIDENCE: *History, Photography, and Power* 832

Emma Goldman on Women’s Rights 834

CONTEXT AND CONNECTIONS 837



CHAPTER 28

Responses to Global Crisis, 1920–1939

840

Traveler: *Halide Edib*

The Great Depression, 1929–1939 843

The Great Depression in the Industrialized World 843

The Great Depression in Global Perspective 844

Fascism, Communism, and Authoritarianism 846

Mussolini and the Rise of Fascism 847

Hitler and National Socialism in Germany 848

Stalin: Collectivization and the Great Purges 851

VISUAL EVIDENCE: *Angst and Order in German Cinema* 852

Authoritarian Regimes in Asia and Latin America 855

Ultranationalism in Japan 855

The Rise of Modern Turkey 856

WORLD HISTORY IN TODAY’S WORLD: *Kemalists and Islamists in the Turkish Republic* 857

Getúlio Vargas and Brazil’s “New State” 858

Anticolonial Nationalism in Asia, Africa, and the Caribbean 858

Gandhi and the Indian National Congress 858

MOVEMENT OF IDEAS: *Gandhi and Nehru on Progress and Civilization* 860

Colonialism and Resistance in Africa, the Caribbean, and Southeast Asia 862

The Road to War 865

CONTEXT AND CONNECTIONS 869

CHAPTER **29****The Second World War and the Origins of the Cold War, 1939–1949**

872

Traveler: *Nancy Wake***The Second World War: Battlefields, 1939–1945** 874German *Blitzkrieg* and the Rising Sun of Japan, 1939–1942 875

The Allies on the Offensive, 1942–1945 878

VISUAL EVIDENCE: *Hiroshima and Nagasaki* 882**Total War and Civilian Life** 885

Civilians and Total War in the United States and Europe 885

WORLD HISTORY IN TODAY'S WORLD: *From Cryptography to Computer Science* 886

Civilians and Total War in Asia and the Colonial World 887

The Holocaust 889

MOVEMENT OF IDEAS: *Primo Levi's Memories of Auschwitz* 890**Origins of the Cold War, 1945–1949** 893

The New United Nations and Postwar Challenges, 1945–1947 893

The United States, the Soviet Union, and the Origins of a Bipolar World 895

CONTEXT AND CONNECTIONS 898CHAPTER **30****The Cold War and Decolonization, 1949–1975**

900

Traveler: *Ernesto ("Che") Guevara, 1960***The Cold War and Revolution, 1949–1962** 903

The People's Republic of China, 1949–1962 903

The Cuban Revolution and the Cuban Missile Crisis 905

Spheres of Influence: Old Empires and New Superpowers 907

Superpower Interventions, 1953–1956 908

Decolonization and Neocolonialism in Africa, 1945–1964 911

MOVEMENT OF IDEAS: *The Wretched of the Earth* 914

The Bandung Generation, 1955–1965 916

Vietnam: The Cold War in Southeast Asia, 1956–1974 919

A Time of Upheaval, 1966–1974 921

The Sixties: The Rising Expectations of Surging Youth 922

1968: A Year of Revolution 923

VISUAL EVIDENCE: *Sgt. Pepper's Lonely Hearts Club Band* 924

Death and Dictatorship in Latin America, 1967–1975 927

The Great Proletarian Cultural Revolution, 1965–1974 927

WORLD HISTORY IN TODAY'S WORLD: *Michelle Bachelet and Dilma Rousseff: From Protest to Leadership in South America* 928*Détente* and Challenges to Bipolarity 929**CONTEXT AND CONNECTIONS** 930



CHAPTER 31

Toward a New World Order, 1975–2000

932

Traveler: *Nelson Mandela*

The Late Cold War and the Collapse
of the Soviet Union, 1975–1991 935

The United States in the Post-Vietnam Era,
1975–1990 935

From Leonid Brezhnev to Mikhail
Gorbachev 935

Revolution in Eastern Europe 937

Post-Soviet Struggles for Democracy and
Prosperity 939

VISUAL EVIDENCE: *Tanks and Protests
in Moscow and Beijing* 940

The Late Cold War in Latin America
and Africa: Crisis and Opportunity 943

From Dictatorship to Democracy in Central
America 943

South African Liberation 945

The Rwandan Genocide and Congolese
Conflict 947

WORLD HISTORY IN TODAY'S WORLD:

Smartphones and "Conflict Minerals" 948

Enduring Challenges in the Middle East 949

Iran and Iraq 949

Afghanistan and Al-Qaeda 951

The Israeli-Palestinian Conflict 951

Globalization and Its Discontents 954

Japan and the "Asian Tigers" 954

Deng Xiaoping's China and
Its Imitators 956

The European Union 958

Neoliberalism, Inequality, and Economic
Globalization 959

MOVEMENT OF IDEAS: *The End
of History?* 960

CONTEXT AND CONNECTIONS 963



CHAPTER 32

Voyage into the Twenty-First Century

966

Traveler: *Ai Weiwei*

Emerging Economic Players 969

MOVEMENT OF IDEAS: *The Piketty Controversy:
Inequality and Economic History* 974

Global Finance: Collapse and
Consequences 976

Global Security 978

Health and the Environment 982

WORLD HISTORY IN TODAY'S WORLD: *World
Historians and Disease History* 984

Population Movement and
Demography 986

Women's Leadership and Gender
Issues 988

A Year of Protest, Then
Counter-Reactions 990

Global Art and Culture 993

VISUAL EVIDENCE: *The Art of Ai Weiwei* 994

CONTEXT AND CONNECTIONS 996

MAPS

- 1.1 Early Agriculture 20
- 1.2 Ancient Southwestern Asia 22
- 2.1 Ancient Egypt and Nubia 41
- 2.2 The International System, ca. 1500–1250 B.C.E. 46
- 2.3 The Levant and the Assyrian and Neo-Babylonian Empires 52
- 3.1 Indus River Valley Society 64
- 3.2 Distribution of Languages in Modern South Asia 67
- 4.1 The Han Empire at Its Greatest Extent, ca. 50 B.C.E. 111
- 5.1 Complex Societies in the Americas, ca. 1200 B.C.E. 119
- 5.2 Pacific Migration Routes Before 1500 135
- 6.1 Greek and Phoenician Settlement in the Mediterranean 159
- 6.2 The Empires of Persia and Alexander the Great 168
- 7.1 The Roman Empire at Its Greatest Extent 193
- 7.2 The Spread of Christianity 197
- 7.3 The Migrations of Germanic-Speaking Peoples 206
- 8.1 The Spread of Buddhism and Hinduism to Southeast Asia 220
- 8.2 Korea and Japan, ca. 550 236
- 9.1 The Breakup of the Abbasid Empire 262
- 10.1 The Byzantine Empire 277
- 10.2 The Carolingian Realms 287
- 10.3 The Viking Raids, 793–1066 289
- 10.4 Kievan Rus 298
- 11.1 African Trade Routes Before 1500 310
- 11.2 The Delhi Sultanate 331
- 12.1 China's Trade Relations with the External World, 1225 361
- 13.1 The Crusades 388
- 13.2 Trade Routes and Movement of the Plague 394
- 14.1 The Four Quadrants of the Mongol Empire After 1263 416
- 14.2 Zheng He's Voyages, 1405–1433 427
- 15.1 The Aztec Empire 441
- 15.2 The Inca Empire 444
- 15.3 The Age of Maritime Expansion, 1400–1600 450
- 16.1 Maritime Trade in the Eastern Indian Ocean and East Asia 472
- 17.1 The Protestant Reformation 513
- 17.2 Western Eurasia in the Early Eighteenth Century 526
- 18.1 The Spanish Empire in the Americas 534
- 19.1 Major African States and Trade Routes, ca. 1500 563
- 19.2 The Atlantic Slave Trade 577
- 20.1 The Qing Empire, 1644–1783 592
- 20.2 The Expansion of Russia, 1500–1800 600
- 21.1 The Exploration of Western North America 634
- 22.1 Napoleonic Europe in 1810 664
- 22.2 Independence in Latin America 673
- 22.3 Europe in 1815 677
- 23.1 Continental Industrialization, ca. 1850 689
- 24.1 Asia in 1910 723
- 24.2 Indian Railroads, 1893 739
- 25.1 U.S. Expansion, 1783–1867 750
- 25.2 Latin America, ca. 1895 764
- 26.1 Africa, 1878 and 1914 785
- 26.2 The New Imperialism in Southeast Asia, 1910 794
- 27.1 World War I, 1914–1918 810
- 27.2 Territorial Changes in Europe After World War I 820
- 28.1 The Japanese Invasion of China 866
- 28.2 The Growth of Nazi Germany, 1933–1939 868
- 29.1 World War II in Europe and North Africa 876
- 29.2 World War II in Asia and the Pacific 884
- 30.1 China and Taiwan 904
- 30.2 Cold War Confrontations 909
- 30.3 Decolonization 912
- 31.1 The Dissolution of the Soviet Union 938
- 31.2 Middle East Oil and the Arab-Israeli Conflict 952
- 31.3 The European Union 959
- 32.1 Per Capita Income 971
- 32.2 Iraq in Transition 979
- 32.3 World Religions 987

VISUAL EVIDENCE IN PRIMARY SOURCES

- CHAPTER 1 The First Art Objects in the World 8
- CHAPTER 2 Reading the Mummy of Hornedjitef: High Priest at Karnak 50
- CHAPTER 3 The Buddhist Stupa at Kanaganahalli 76
- CHAPTER 4 The Terracotta Warriors of the Qin Founder's Tomb 104
- CHAPTER 5 The Imposing Capital of Teotihuacan 122
- CHAPTER 6 The Parade of Nations at Darius's Palace at Persepolis 156
- CHAPTER 7 The Emperor Hadrian's Villa 190
- CHAPTER 8 Borobudur: A Buddhist Monument in Java, Indonesia 222
- CHAPTER 9 Zubaydah's Road 264
- CHAPTER 10 The Scandinavian Settlement at L'Anse aux Meadows 296
- CHAPTER 11 The Ruins of Great Zimbabwe 332
- CHAPTER 12 The Commercial Vitality of a Chinese City 350
- CHAPTER 13 The Gothic Cathedral at Chartres 374
- CHAPTER 14 State-of-the-Art Cartography in the 1400s 428
- CHAPTER 15 Comparing Zheng He's and Columbus's Ships 456
- CHAPTER 16 An Ivory Mask from Benin, West Africa 478
- CHAPTER 17 European and Asian Influences in Russian Architecture 522
- CHAPTER 18 Catholic and Protestant Churches in the Americas 552
- CHAPTER 19 The Horrors of the Middle Passage 584
- CHAPTER 20 Colonel Mordaunt's Cockfight 608
- CHAPTER 21 The Death of Captain Cook 638
- CHAPTER 22 Portraits of Power: George Washington and Napoleon Bonaparte 656
- CHAPTER 23 The Great Exhibition and the Crystal Palace 696
- CHAPTER 24 The Boxer Rebellion: American and French Views 724
- CHAPTER 25 The Residential School System for First Nations Children 770
- CHAPTER 26 National Flags 798
- CHAPTER 27 History, Photography, and Power 832

- CHAPTER 28 Angst and Order in German Cinema 852
- CHAPTER 29 Hiroshima and Nagasaki 882
- CHAPTER 30 *Sgt. Pepper's Lonely Hearts Club Band* 924
- CHAPTER 31 Tanks and Protests in Moscow and Beijing 940
- CHAPTER 32 The Art of Ai Weiwei 994

MOVEMENT OF IDEAS THROUGH PRIMARY SOURCES

- CHAPTER 1 The Worship of Goddesses? 12
- CHAPTER 2 The Flood Narrative in the *Epic of Gilgamesh* and the Hebrew Bible 54
- CHAPTER 3 The First Sermon of the Buddha and Ashoka's Fourth Major Rock Edict 82
- CHAPTER 4 *The Analects* and the Qin Emperor's Stone Texts 98
- CHAPTER 5 The Ballgame in *Popul Vuh* 128
- CHAPTER 6 Alexander's Hellenistic Policies in Central Asia 170
- CHAPTER 7 Early Christianity in the Eastern Provinces 198
- CHAPTER 8 Teaching Buddhism in a Confucian Society 228
- CHAPTER 9 The Five Pillars of Islam 252
- CHAPTER 10 Ibn Fadlan's Description of a Rus Burial 300
- CHAPTER 11 Conversion to Islam in Fictional and Nonfictional Sources 320
- CHAPTER 12 Chinese Knowledge of the World's Islands in 1225 362
- CHAPTER 13 Fibonacci's New System for Writing Numbers 382
- CHAPTER 14 A Debate Among Christians, Buddhists, and Muslims at the Mongol Court 412
- CHAPTER 15 *The Sacrifice of Isaac*: A Sixteenth-Century Nahuatl Play 462
- CHAPTER 16 Iranians and Europeans at the Court of Siam 488
- CHAPTER 17 A French View of the Iranians 508
- CHAPTER 18 Prospero and Caliban 548
- CHAPTER 19 Sugar in British Politics 580
- CHAPTER 20 Petitioning Catherine the Great 602
- CHAPTER 21 A Japanese View of European Science 624

- CHAPTER 22 Edmund Burke’s Reflections on the French Revolution 662
- CHAPTER 23 Religious Leaders Comment on Science and Progress 706
- CHAPTER 24 Religion and Rebellion: India in 1858 736
- CHAPTER 25 Alexis de Tocqueville’s *Democracy in America* 752
- CHAPTER 26 Pan-Africanism and African Identity 782
- CHAPTER 27 Dissenting Voices at the Paris Peace Conference 818
- CHAPTER 28 Gandhi and Nehru on Progress and Civilization 860
- CHAPTER 29 Primo Levi’s Memories of Auschwitz 890
- CHAPTER 30 The Wretched of the Earth 914
- CHAPTER 31 The End of History? 960
- CHAPTER 32 The Piketty Controversy: Inequality and Economic History 974

- CHAPTER 16 Christianity in China 494
- CHAPTER 17 Pope Francis, Europe, and the World 512
- CHAPTER 18 Indigenous Studies and Indigenous Languages 538
- CHAPTER 19 Twenty-One Million Slaves 566
- CHAPTER 20 The Train to Tibet 597
- CHAPTER 21 Museums, Science, and Empire 629
- CHAPTER 22 Competing Visions of South American Cooperation 670
- CHAPTER 23 The Anthropocene: A New Geological Epoch? 687
- CHAPTER 24 Senkaku or Diaoyu Islands? 732
- CHAPTER 25 The Roller Coaster of Commodity Prices 759
- CHAPTER 26 Political Conflict and the Thai Monarchy 802
- CHAPTER 27 From “Shell Shock” to Posttraumatic Stress Disorder 812
- CHAPTER 28 Kemalists and Islamists in the Turkish Republic 857
- CHAPTER 29 From Cryptography to Computer Science 886
- CHAPTER 30 Michelle Bachelet and Dilma Rousseff: From Protest to Leadership in South America 928
- CHAPTER 31 Smartphones and “Conflict Minerals” 948
- CHAPTER 32 World Historians and Disease History 984

WORLD HISTORY IN TODAY’S WORLD

- CHAPTER 1 The Unquenchable Demand for Ivory 19
- CHAPTER 2 Recreating the World’s Oldest Brew 34
- CHAPTER 3 Whose History of Hinduism Is Correct? 69
- CHAPTER 4 The World’s Oldest Soup 92
- CHAPTER 5 Single- and Double-Hulled Canoes 137
- CHAPTER 6 The Cyrus Cylinder 151
- CHAPTER 7 Christianity Shifts Southward 204
- CHAPTER 8 Buddhism Declines in Thailand 232
- CHAPTER 9 Preventing Disease Among Hajj Pilgrims 269
- CHAPTER 10 The Plague Bacteria Lives On 280
- CHAPTER 11 Legal Reform in Morocco 324
- CHAPTER 12 Chinese Students Take the SAT 357
- CHAPTER 13 Debating the *Downton Abbey* Law 377
- CHAPTER 14 The World’s Longest Horse Race 410
- CHAPTER 15 The Great Road Reunites Six Nations 445

Preface

What makes this book different from other world history textbooks?

- Each chapter opens with a narrative about a traveler, whose real-life story is woven throughout the chapter. The *interactive map activity*, available through MindTap™, continues the story of the traveler online, allowing students to click on each important location the traveler visited to learn more about the historical, cultural, and political significance of the journey.
- Shorter than most world history textbooks, this survey still covers all of the major topics required in a world history course, as well as others we have found to be of interest to our students.
- The book's theme of movement highlights cultural contact and discovery and is reinforced in each chapter through the opening map, highlighting a specific traveler's journey, as well as through the unique chapter features, including *Movement of Ideas Through Primary Sources* and *Visual Evidence in Primary Sources*, which teach analytical skills and provoke critical thinking by inviting students to compare viewpoints.
- Brief *Context & Connections* inserts within the chapter text provide specific linkages and comparisons with other regions and periods, and the broader chapter-ending *Context and Connections* essay helps students understand the connections among different regions and periods, as well as global effects and trends.
- A robust digital support package includes numerous ways for students to further engage with the main themes of the text. The interactive environment of MindTap™ helps students exercise their critical thinking skills through a variety of activities and in a variety of formats.
- A beautiful, engaging design features an on-page glossary, a pronunciation guide, and chapter-opening focus questions. These tools help students grasp and retain the main ideas of the chapters.

This world history textbook will, we hope, be enjoyable for students to read and for instructors to teach. We have focused on thirty-two different people and the journeys they took, starting forty

thousand years ago with Mungo Man in Australia (Chapter 1) and concluding in the twenty-first century with Chinese artist Ai Weiwei. Each of the thirty-two chapters introduces multiple focus points. First, the traveler's narrative introduces the home society and the civilizations visited, demonstrating our theme of the movement of people, ideas, trade goods, and artistic motifs and the results of these contacts. We introduce other evidence, often drawn from primary sources (marked in the running text with italics), to help students reason like historians. Each chapter also covers changes in political structure, the spread of world religions, and prevailing social structure and gender relations. Other important topics include cultural components and the effects of technology and environment.

The chapter-opening narratives enhance the scope and depth of the topics covered. The travelers take us to Tang China with the Japanese Buddhist monk Ennin, to Africa and South Asia with the hajj pilgrim Ibn Battuta, to Peru with the cross-dressing soldier and adventurer Catalina de Erauso, across the Atlantic with the African Olaudah Equiano, and to Europe during the Industrial Revolution with the Russian anarchist Mikhail Bakunin. Their vivid accounts are important sources about these long-ago events that shaped our world. Almost all of these travel accounts are available in English translation, listed in the suggested readings at the end of each chapter. Students new to world history, or to history in general, will find it easier, we hope, to focus on the experience of thirty-two individuals before focusing on the broader trends in their societies and their place in world history.

Instead of presenting a canned list of dates, each chapter covers the important topics at a sensible and careful pace, without compromising coverage or historical rigor. Students compare the traveler's perceptions with alternative sources, and so awaken their interest in the larger developments. Our goal was to select the most compelling topics and engaging illustrations from the entire record of human civilization and to present them in a clear flowing narrative in order to counter the view of history as an interminable compendium of geographical place, names, and facts.

We have chosen a range of travelers, both male and female, from all over the world. These individuals help cast our world history in a truly global format, avoiding the Eurocentrism that prompted the introduction of world history courses in the first place. Some travelers were well born and well educated, while others were not.

Our goal in focusing on the experience of individual travelers is to help make students enthusiastic about world history, while achieving the right balance between the traveler's experience and the course material. We measure our success by all the encouragement we have received both from instructors who teach the course and from students.

We aspire to answer many of the unmet needs of professors and students in world history. Because our book is not encyclopedic, and because each chapter begins with a narrative of a trip, our book is more readable than its competitors, which strain for all-inclusive coverage. They pack so many names and facts into their text that they leave little time to introduce beginning students to historical method, which we do explicitly at the start of Chapter 2 and continue to do in subsequent chapters. Because our book gives students a chance to read primary sources in depth, particularly in the Movement of Ideas Through Primary Sources feature, instructors can spend class time teaching students how to reason historically—not just imparting the details of a given national history. Each chapter includes focus questions that make it easier for instructors new to world history to facilitate interactive learning.

Our approach particularly suits the needs of young professors who have been trained in only one geographic area of history. Our book does not presuppose that instructors already have broad familiarity with the history of each important world civilization.

Theme and Approach

Our theme of movement and contact is key to world history because world historians focus on connections among the different societies of the past. The movement of people, whether in voluntary migrations or forced slavery, has been one of the most fruitful topics for world historians, as are the experiences of individual travelers. Their reactions to

the people they met on their journeys reveal much about their home societies as well as about the societies they visited.

Our focus on individual travelers illustrates the increasing ease of contact among different civilizations with the passage of time. This theme highlights the developments that resulted from improved communications, travel among different places, the movement of trade goods, and the mixing of peoples. Such developments include the movement of world religions, mass migrations, and the spread of diseases like the plague. *Voyages* shows how travel has changed over time—how the distance covered by travelers has increased at the same time that the duration of trips has decreased. As a result, more and more people have been able to go to societies distant from their own.

Voyages and its integrated online components examine the different reasons for travel over the centuries. While some people were captured in battle and forced to go to new places, others visited different societies to teach or to learn the beliefs of a new religion like Buddhism, Christianity, or Islam. This theme, of necessity, addresses questions about the environment: How far and over what terrain did early man travel? How did sailors learn to use monsoon winds to their advantage? What were the effects of technological breakthroughs like steamships, trains, and airplanes—and the use of fossil fuels to power them? Because students can link the experiences of individual travelers to this theme, movement provides the memorable organizing principle for the book, a principle reinforced in the interactive online journeys offered by the *interactive map activity* on MindTap.

Having a single theme allows us to provide broad coverage of the most important topics in world history. Students who use this book will learn how empires and nations grew in power or influence, and how their ways of organizing their governments differed. Students need not commit long lists of rulers' names to memory; instead they focus on those leaders who created innovative political structures. This focus fits well with travel, since the different travelers were able to make certain journeys because of the political situation at the time. For example, William of Rubruck was able to travel across all of Eurasia because of the unification brought by the Mongol empire, while the size and strength of the Ottoman

empire facilitated Evliya Çelebi's travels to Vienna and Egypt and across Southwest Asia.

Many rulers patronized religions to increase their control over the people they ruled, allowing a smooth introduction to the teachings of the major world religions. Volume 1 introduces the major religions and explains how originally regional religions moved across political borders to become world religions. Volume 2 provides context for today's complex interplay of religion and politics and the complex cultural outcomes that occurred when religions expanded into new world regions. The final two chapters analyze the renewed contemporary focus on religion, as seen in the rise of fundamentalist movements in various parts of the world. Our focus on travelers offers an opportunity to explore their involvement with religion, and *Voyages'* close attention to the religious traditions of diverse societies, often related through the travelers' tales, will give students a familiarity with the primary religious traditions of the world.

The topic of gender is an important one in world history, and throughout, *Voyages* devotes extensive space to the experience of women. Although in many societies literacy among women was severely limited, especially in the premodern era, we have included as many women travelers as possible. In addition, extensive coverage of gender and comparison across chapters of women's experiences in different societies allow students to grasp the experience of ordinary women.

Features

We see the features of this book as an opportunity to help students better understand the main text and to expand that understanding as they explore the integrated online features. Here, we describe the features in the printed book. Details about online features are found in the Ancillaries section on the next page.

Chapter Opening Introduction and Map

The beginning of each chapter should capture the student's attention at the outset. The opening section provides a biographical sketch for the chapter's traveler, a portrait, and a passage from his or her writings (or, if not available, a passage about the individual). A map illustrates the route of the traveler using imaginative graphics.

Movement of Ideas Through Primary Sources

This feature offers an introduction, an extensive excerpt from one or more primary sources, and discussion questions. The chosen passages emphasize the movement of ideas, often by contrasting different perspectives on an idea or a religious teaching. The feature aims to develop the core historical skill of analyzing original sources. Topics include "*The Analects* and the Qin Emperor's Stone Texts," "The Five Pillars of Islam," as described in the Hadith of Gabriel and by a contemporary Chinese encyclopedia, and an Iranian narrative of political and commercial competition in early modern Southeast Asia, "Iranians and Europeans at the Court of Siam."

Visual Evidence in Primary Sources

The goal of this feature is to train students to examine an artifact, a work of art, or a photograph and to glean historical information from the find or artwork. A close-up photograph of a recently discovered Chinese terracotta wrestler, for example, shows students how the figure differs from the famous terracotta warriors, and they are asked as well to compare the Chinese wrestler with a Greek example in a later chapter. Portraits of George Washington and Napoleon Bonaparte lead students to analyze the symbolism they contain and how the portraits serve as representations of political power. Discussion questions help students analyze the evidence as they examine the source.

World History in Today's World

This brief feature picks an element of modern life with roots in the period under study. We chose topics interesting to students (for example, "Recreating the World's Oldest Beer" and "From 'Shell Shock' to Post-Traumatic Stress Disorder"), and we highlight their relationship to the past. This feature should provide material to trigger discussion and help instructors explain why world history matters, since students often have little sense that the past has anything to do with their own lives.

Changes in the Third Edition

Every chapter of this new edition has been carefully checked and revised for readability and clarity of language. In every chapter, topics and subtopics

have been added or elaborated on, and recent scholarship has been incorporated throughout the text. Some highlights of specific changes in the second edition follow.

- A new feature has been added: roughly eight to ten Context & Connections inserts within the running text of each chapter. These inserts relate to the surrounding text and describe developments or comparisons that link to other regions and periods to help show students how world history interrelates across time and space. The Context & Connections inserts often include key terms from other chapters, which are highlighted in color with their chapter reference to help emphasize recurring themes and ideas. These inserts complement, but are distinct from, the end-of-chapter Context and Connections essays.
- A total of ten Visual Evidence in Primary Sources and seven Movement of Ideas Through Primary Sources features have been replaced or significantly changed.
- Approximately 30 percent of the illustrations have been replaced with new images, with an eye toward visual interest and engagement.
- A new section at the start of Chapter 2—“Complex Societies and the Discipline of History”—introduces students to historical method and the nature of sources.
- Chapter 4’s new traveler, China’s Grand Historian Sima Qian, lived during the Han dynasty and wrote a record from the legendary past to 100 B.C.E., after the Qin dynasty (221–207 B.C.E.) unified the empire for the first time.
- Chapter 7 has a new traveler, Egeria, a Spanish pilgrim who from 381 to 384 traveled from the Roman empire’s western edge to Jerusalem, Egypt, and Constantinople. Chapter 8 explicitly compares her experience with that of the Japanese Buddhist pilgrim Ennin, and Chapter 9 contrasts their pilgrimages with the hajj of Islam.
- Chapter 12 includes a new section, “The Changing Lives of Women in China’s Commercial Revolution,” which further illustrates the life of women in Song China.
- In Chapter 14, a new historical analysis of the fall of Constantinople will help students understand the global nature of world history.
- Chapter 15’s new traveler is Bernardino de Sahagún, a Franciscan friar who compiled the *General History of the Things of New Spain*, also

known as the Florentine Codex, by interviewing the native Nahua people of central Mexico in their own language and recording their answers in Nahuatl with a Spanish summary.

- In Chapter 17, the first main section has been refocused to concentrate on the Ottoman and Safavid empires and their relations. In addition, the chapter’s concluding Context and Connections essay now analyzes early modern developments in light of recent scholarship on the role of climate change.
- The new traveler in Chapter 20, Rammohun Roy, a prominent Indian reformer and figure in the Bengal Renaissance, offers an Indian’s perspective on the transition from Mughal to British rule.
- Coverage of Mexico from 1910 through Carranza has been moved from Chapter 27 to Chapter 25, providing enhanced continuity in the coverage of Mexican history.
- Chapter 27 has a new traveler, the anarchist and feminist Emma Goldman, who brings to the narrative a broader critique of the Bolshevik system in Russia and an in-depth look at a radical view of women’s issues in the early twentieth century.
- The survey of contemporary global affairs in Chapter 32 has been thoroughly updated and also includes greater emphasis on women’s leadership.

Ancillaries

Instructor Resources

MindTap™

MindTap for *Voyages in World History*, Third Edition is a personalized, online digital learning platform providing students with an immersive learning experience that builds critical thinking skills. Through a carefully designed chapter-based learning path, MindTap allows students to easily identify the chapter’s learning objectives, improve their writing skills by completing unit-level essay assessments, read short and manageable sections from the e-book, and test their content knowledge with a chapter test that employs Aplia™ questions (see Chapter Test description on the next page).

- *Setting the Scene*: Each chapter of the MindTap begins with a brief video that introduces the

chapter's major themes in a compelling, visual way that encourages students to think critically about the subject matter.

- *Interactive Traveler Map*: A unique interactive map activity expands upon each chapter's story of the traveler, allowing students to follow along the journey and click on each stop to learn more about where the traveler went and why it was historically significant. Opening learning objectives, posed as questions, help students focus on what to take away from each unique traveler experience, and place the journey in the context of the chapter's overarching lesson.
- *Review Activities*: Reading comprehension assignments were designed to cover the content of each major heading within the chapter.
- *Chapter Test*: Each chapter within MindTap ends with a summative chapter test. It covers each chapter's learning objectives and is built using Aplia critical thinking questions. All chapter tests include at least one map-based activity. Aplia provides automatically graded critical thinking assignments with detailed, immediate explanations on every question. Students can also choose to see another set of related questions if they did not earn all available points in their first attempt and want more practice.
- *Reflection Activity*: Every chapter ends with an assignable, gradable reflection activity, intended as a brief writing assignment through which students can apply a theme or idea they've just studied.
- *Unit Activities*: Chapters in MindTap are organized into multi-chapter units. Each unit includes a brief set of higher-stakes activities for instructors to assign, designed to assess students on their writing and critical thinking skills and their ability to engage larger themes, concepts, and material across multiple chapters.
- *Classroom Activities*: MindTap includes a brief list of in-class activity ideas for instructors. These are designed to increase student collaboration, engagement, and understanding of selected topics or themes. These activities, including class debate scenarios and primary source discussion guides, can enrich the classroom experience for both instructors and students.

MindTap also includes a variety of other tools that will make history more engaging for students:

- *The Instructor's Resource Center* provides a large collection of searchable, curated readings intended for use in World History. Individual readings may be assigned to students along with a brief assessment to enhance their learning experience.
- *ReadSpeaker* reads the text out loud to students in a voice they can customize.
- *Note-taking and highlighting* are organized in a central location that can be synced with Ever-Note on any mobile device a student may have access to.
- *Questia* allows professors to search a database of thousands of peer-reviewed journals, newspapers, magazines, and full-length books—all assets can be added to any relevant chapter in MindTap.
- *Kaltura* allows instructors to insert inline video and audio into the MindTap platform.
- *ConnectYard* allows instructors to create digital “yards” and communicate with students based upon their preferred social media sites—without “friending” students.

Instructor Companion Website

This website is an all-in-one resource for class preparation, presentation, and testing for instructors. Accessible through Cengage.com/login with your faculty account, you will find an Instructor's Manual, PowerPoint presentations (descriptions below), and test bank files (please see the Cognero® description below).

Instructor's Manual: For each chapter, this manual contains: chapter outlines and summaries, lecture suggestions, suggested research topics, map exercises, discussion questions for primary source documents, and suggested readings and resources.

PowerPoint® Lecture Tools: These presentations are ready-to-use, visual outlines of each chapter. They are easily customized for your lectures. There are presentations of only lectures or only images, as well as combined lecture and image presentations. Also available is a per-chapter JPEG library of images and maps.

Cengage Learning Testing, Powered by Cognero®: The test bank for *Voyages in World History*, Third Edition is accessible through Cengage.com/login with your faculty account. This test bank contains multiple-choice and essay questions for each chapter.

Cognero® is a flexible, online system that allows you to author, edit, and manage test bank content for *Voyages in World History*, Third Edition. Create multiple test versions instantly and deliver through your LMS from your classroom, or wherever you may be, with no special installs or downloads required.

The following format types are available for download from the Instructor Companion Website: Blackboard, Angel, Moodle, Canvas, and Desire2Learn. You can import these files directly into your LMS to edit, manage questions, and create tests. The test bank is also available in PDF format from the Instructor Companion Website.

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Custom Options

Nobody knows your students like you, so why not give them a text that is tailor-fit to their needs? Cengage Learning offers custom solutions for your course—whether it's making a small modification to *Voyages in World History*, Third Edition to match your syllabus or combining multiple sources to create something truly unique. You can pick and choose chapters, include your own material, and add additional map exercises along with the Rand McNally Atlas to create a text that fits the way you teach. Ensure that your students get the most out of their textbook dollar by giving them exactly what they need. Contact your Cengage Learning representative to explore custom solutions for your course.

Student Resources

MindTap™

The learning path for *Voyages in World History*, Third Edition MindTap incorporates a set of resources designed to help students develop their own historical skills. These include interactive, auto-gradable tutorials for map skills, essay writing, and critical

thinking. They also include a set of resources developed to aid students with their research skills, primary and secondary source analysis, and knowledge and confidence around proper citations.

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Writing for College History, 1e [ISBN: 9780618306039] Prepared by Robert M. Frakes, Clarion University. This brief handbook for survey courses in American history, Western civilization/European history, and world civilization guides students through the various types of writing assignments they encounter in a history class. Providing examples of student writing and candid assessments of student work, this text focuses on the rules and conventions of writing for the college history course.

The History Handbook, 2e [ISBN: 9780495906766] Prepared by Carol Berkin of Baruch College, City University of New York and Betty Anderson of Boston University. This book teaches students both basic and history-specific study skills such as how to read primary sources, research historical topics, and correctly cite sources. Substantially less expensive than comparable skill-building texts, *The History Handbook* also offers tips for Internet research and evaluating online sources.

Doing History: Research and Writing in the Digital Age, 2e [ISBN: 9781133587880] Prepared by Michael J. Galgano, J. Chris Arndt, and Raymond M. Hyser of James Madison University. Whether you're starting down the path as a history major or simply looking for a straightforward and systematic guide to writing a successful paper, you'll find this text to be an indispensable handbook to historical research. This text's "soup to nuts" approach to researching and writing about history addresses every step of the process, from locating your sources and gathering information, to writing clearly and making proper use of various citation styles to avoid plagiarism.

You'll also learn how to make the most of every tool available to you—especially the technology that helps you conduct the process efficiently and effectively.

The Modern Researcher, 6e [ISBN: 9780495318705]

Prepared by Jacques Barzun and Henry F. Graff of Columbia University. This classic introduction to the techniques of research and the art of expression is used widely in history courses but is also appropriate for writing and research methods courses in other departments. Barzun and Graff thoroughly cover every aspect of research, from the selection of a topic through the gathering, analysis, writing, revision, and publication of findings, presenting the process not as a set of rules but through actual cases that put the subtleties of research in a useful context. Part One covers the principles and methods of research; Part Two covers writing, speaking, and getting one's work published.

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In recognition of his father's precious gift of curiosity, Ken dedicates this book to the memory of James Gavin Curtis.

About the Authors

Valerie Hansen

Valerie Hansen teaches Chinese and world history at Yale University, where she is professor of history. Her main research goal is to draw on nontraditional sources to capture the experience of ordinary people. In particular, she is interested in how sources buried in the ground, whether intentionally or unintentionally, supplement the detailed official record of China's past. Her books include *The Open Empire: A History of China to 1600* (2000) and *The Silk Road: A New History* (2012). In the past decade, she has spent three years in China: 2005–2006 in Shanghai on a Fulbright grant, and 2008–2009 and 2011–2012 teaching at Yale's joint undergraduate program with Peking University. She is currently working on a book about the world in the year 1000 and the many unexpected connections that tied different regions together for the first time.

Kenneth R. Curtis

Kenneth R. Curtis received his Ph.D. from the University of Wisconsin-Madison in African and Comparative World History. His research focuses on colonial to postcolonial transitions in East Africa, with a particular focus on the coffee economy of Tanzania. He is professor of History at California State University Long Beach, where he has taught world history at the introductory level, in special courses designed for future middle and high school teachers, and in graduate seminars. He has worked to advance the teaching of world history at the collegiate and secondary levels in collaboration with the World History Association, the California History/Social Science Project, and the College Board's Advanced Placement World History program.

Note on Spelling

Students taking world history will encounter new names of people, terms, and places from languages that use either different alphabets or no alphabet at all (like Chinese) and that have multiple variant spellings in English. As a rule, we have opted to give names in the native language of whom we are writing about, not in other languages.

Our goal has been to avoid confusing the reader, even if specific decisions may not make sense to expert readers. To help readers, we provide a pronunciation guide on the first appearance of any term or name whose pronunciation is not obvious from the spelling. A few explanations for specific regions follow.

The Americas

Only after 1492 with the arrival of Columbus and his men did outsiders label the original residents of the Americas as a single group. For this reason, any word for the inhabitants of North and South America is inaccurate. We try to refer to individual peoples whenever possible. When speaking in general terms, we use the word *Amerindian* because it has no pejorative overtones and is not confusing.

Many place names in Spanish-speaking regions have a form in both Spanish and in the language of the indigenous peoples; whenever possible we have opted for the indigenous word. For example, we write about the *Tiwanaku* culture in the Andes, not *Tiahuanaco*. In some cases, we choose the more familiar term, such as *Inca* and *Cuzco*, rather than the less familiar spellings *Inka* and *Cusco*. We retain the accents for modern place names.

East Asia

For Chinese, we have used the pinyin system of romanization. However, on the first appearance of a name, we alert readers to nonstandard spellings, such as Chiang Kai-shek and Sun Yat-sen, that have already entered English.

For other Asian languages, we have used the most common romanization systems (McCune-Reischauer for Korean, Hepburn for Japanese). Because we prefer to use the names that people called themselves, we use *Chinggis Khan* for the ruler of the Mongols (not *Genghis Khan*, which is Persian) and the Turkish *Timur the Lame* (rather than *Tamerlane*, his English name).

West Asia and North Africa

Many romanization systems for Arabic and related languages like Ottoman Turkish or Persian use an apostrophe to indicate specific consonants (*ain* and *hamza*). Because it is difficult for a native speaker of English to hear these differences, we have omitted these apostrophes. For this reason, we use *Quran* (not *Qur'an*).



VOYAGES

in World History

1

The Peopling of the World, to 4000 B.C.E.

- The First Anatomically Modern Humans in Africa, ca. 200,000 B.C.E. (p. 4)
- How Modern Humans Populated Asia, Australia, and Europe (p. 7)
- The Settling of the Americas, ca. 14,000–12,000 B.C.E. (p. 15)
- The Emergence of Agriculture, 9400–3000 B.C.E. (p. 18)



From the earliest moments of human history, our ancestors were on the move. Archaeologists continue to debate when the earliest anatomically modern humans moved out of Africa and how they populated the rest of the world. One of the most distant places our ancient forebears reached—probably around 50,000 years ago—was Australia. In 1974, a team of archaeologists from Australia National University discovered the remains of a male near Mungo (muhn-GO) Lake in the southeastern Australian state of New South Wales. He is known as **Mungo Man**; Mungo Woman is the cremated remains of a female that the team’s lead archaeologist, J. M. Bowler, found at the site several years earlier. Here, Bowler describes the moment he spotted Mungo Man’s skull sticking out of the ground:

Prolonged and heavy rains during 1973 had swept across the eroded dune surface, uncovering a new crop of archaeological and other prehistoric finds. At a point some 500 m [1,600 ft] east of the Lake Mungo

*I cremation/burial site [of Mungo Woman] the late afternoon sun was highlighting a small white object protruding through the sandy surface. ... Closer examination revealed the object to be the exposed left side of a carbonate-encrusted human cranium. The central area of exposed bone protruded some 2–3 cm above the eroded surface. Much of the bone was coated with a thin layer of calcrete which was pinkish in color, a feature not known from carbonate of similar age elsewhere. ...**

*J. M. Bowler and A. G. Thorne, “Human Remains from Lake Mungo: Discovery and Excavation of Lake Mungo III,” in *The Origin of the Australians*, ed. R. L. Kirk and A. G. Thorne (Atlantic Highlands, N.J.: Humanities Press Inc., 1976), p. 128.

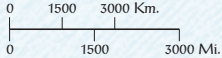


Remains of Mungo Man discovered in 1974, dated to 40,000 B.C.E.

First Travels to Australia

- Migration route to Australia
- X Mungo Man findspot
- Other migration route, with dates
- Ice sheets, 18,000 years ago
- Ice sheets, 12,000 years ago
- Probable coastline, 18,000 years ago

Note: All routes are highly conjectural.



Even on that first day, Professor Bowler noticed that the soil around the burial had a pinkish tinge, which turned out to be the remains of **ocher** (OH-kerh), a reddish-brown mineral element ancient peoples used to color the soil. The site dates to 40,000 B.C.E., some 10,000 years after Australia was first settled. (As is common among world historians, this book uses B.C.E. [Before Common Era] for dates prior to the year 1 of the first century, and C.E. [Common Era] for dates from the year 1 forward. Older books use B.C. [Before Christ] and A.D. [Anno Domini, In the Year of Our Lord].) The peopling of Australia marked an important phase in the history of humankind: people had advanced to the point where they could plan into the future. They could construct boats or rafts to take them across the 60 miles (100 km) of water separating Australia from the Eurasian landmass at the time.

By 200,000 B.C.E., anatomically modern people had fully developed in Africa. Starting between 80,000 and 60,000 B.C.E., our ancestors arrived in Asia. They later

Mungo Man
Remains of a male found near Mungo Lake in the southeastern Australian state of New South Wales, dated to about 40,000 B.C.E.

ocher
A reddish-brown iron-based pigment that ancient peoples used to color the soil and to decorate cave walls.

reached Australia and Europe at the same time. The Western Hemisphere was settled much later.

Since none of these early peoples could read and write, no documents survive. But archaeological evidence, including cave paintings and ancient tools, makes it possible to reconstruct the early history of humanity. In addition, new information derived from genetic material called deoxyribonucleic acid (DNA) has allowed scientists to reconstruct the peopling of the world with unprecedented accuracy.

FOCUS QUESTIONS

- When did anatomically modern humans arise in Africa, and when did they first behave in recognizably human ways?
- How and when did the first humans settle Asia, Australia, Europe, and the Americas?
- How and where did humans begin to cultivate plants? How did agriculture's impact vary around the world?

The First Anatomically Modern Humans in Africa, ca. 200,000 B.C.E.

Homo sapiens sapiens

Biological term for modern human beings belonging to the genus *Homo*, species *sapiens*, and subspecies *sapiens*.

hominins

Term referring to all humans and their ancestors but not to chimpanzees, gorillas, or orangutans.

When the species *Homo sapiens sapiens* (HO-mo SAY-pee-uhnz SAY-pee-uhnz), anatomically modern humans, first appeared in central and southern Africa some 200,000 years ago, they lived side by side with other animals and other **hominins**, a general term referring to humans and their ancestors. But in important respects, they were totally different from their neighbors, for they learned to change their environment with radically new tools and skills. Their departure from Africa, their first art works, their hunting prowess, and their trade networks are all signs of recognizably human behavior. One fascinating puzzle remains to be solved: If they were anatomically the same as modern humans, why did they only start to behave in recognizably human ways after 50,000 B.C.E.? Early analysts wondered if leaving Africa somehow forced our ancestors to behave differently, but a series of discoveries in recent years, particularly in South Africa, provide evidence of modern behaviors long before 50,000 B.C.E.

Predecessors to the First Anatomically Modern Humans

Because ancient human remains are rare, in 1997 paleontologists (pay-lee-on-TAHL-oh-gists), scientists who study life in the distant past, were extremely pleased to excavate three skulls dating to 160,000 B.C.E. at the Herto site of Ethiopia. Compared to those of later modern humans, the skulls found at the Herto site are slightly larger, the faces are longer, and the brows more pronounced. The Herto skulls (from two adults and one child) represent either the earliest modern humans or their immediate predecessors and thus decisively demonstrate that the *Homo sapiens sapiens* species

arose first in Africa. Concluding that all modern people are descended from this group, one of the excavating archaeologists commented: “*In this sense, we are all African.*”*

Scientists use the concept of **evolution** to explain how all life forms, including modern humans, have come into being. In the nineteenth century, Charles Darwin proposed that natural selection is the mechanism underlying evolutionary change. He realized that variations exist within a species and that certain variations increase an individual’s chances of survival. We know that genetic mutations, or permanent, transmissible changes to genetic material, cause DNA to change, and so all variations, beneficial or not, are passed along to offspring. Because those individuals within a population who possess beneficial traits—perhaps a bigger brain or more upright posture—are more likely to survive, they will have more offspring. And because traits are inherited, these offspring will also possess the beneficial traits. Individuals lacking those traits will have few or no offspring. As new mutations occur within a population, its characteristics will change and a new species can develop from an earlier one, typically over many thousands or even millions of years. The species closest to modern human beings today is the chimpanzee, whose cells contain nuclei with DNA that overlaps with 98.4 percent of human DNA. But humans and chimpanzees have developed separately for some seven million years.

Biologists use four different subcategories when classifying animals: family, genus (JEAN-uhs, the Latin word for “group” or “class”), species, and subspecies. Members of the primate family, modern humans belong to the genus *Homo* (“person” in Latin), the species *sapiens* (“wise” or “intelligent” in Latin), and the subspecies *sapiens*, so the correct term for modern people is *Homo sapiens sapiens*. Members of the same species can reproduce, while members of two different species cannot. Since modern humans are now the only living subspecies in the *Homo sapiens* species, scholars often abbreviate the name to *Homo sapiens*. Here, we will continue to say *Homo sapiens sapiens* because we are discussing periods when other subspecies were alive.

The Herto site was on the edge of a shallow, freshwater lake that was home to crocodiles, fish, and hippopotamuses, and buffalo lived on the land. The site’s residents used stone tools to remove flesh from the hippopotamus, and the only child’s skull had tool marks as well, an indication that flesh had been removed from it. Some scientists have speculated that the Herto residents practiced cannibalism, but it is just as likely that they left marks on the skull as part of the ritual preparation of the dead.

.....
Anatomically Modern Humans The finds at Herto indicate that, sometime around 200,000 years ago, anatomically modern humans appeared in Africa. Their build, the size of their brains, and their physical appearance were very similar to ours.

Analysis of genetic material has provided crucial information that supplements what we can learn by analyzing archaeologically excavated remains. When

evolution

Model proposed by Charles Darwin to explain the development of new species through genetic mutation and natural selection.

*J. N. Wilford, “In Ancient Skulls from Ethiopia, Familiar Faces,” *New York Times*, June 12, 2003, pp. A1, A8.

mitochondrial Eve

The first female ancestor shared by all living humans, who was identified by analysis of mitochondrial DNA.

a man and a woman have a child, most of their DNA recombines to form a new sequence unique to their baby, but some DNA passes directly from the mother to the child in mitochondrial DNA, or mtDNA. By analyzing mtDNA, geneticists have identified a single female ancestor, known as **mitochondrial Eve**, whom all living humans have in common. Mitochondrial Eve lived in West Africa near modern Tanzania. Eve may not have been the first anatomically modern female; she was the first anatomically modern female whose daughters gave birth to daughters, and so on through the generations, allowing her mtDNA to pass to every person alive today. The total number of anatomically modern humans alive during Eve's lifetime was surprisingly small: about 10,000 or 20,000 people. That number seems to have held steady for more than 100,000 years, until the development of agriculture (discussed later in this chapter) made it possible to support a larger population.

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The Beginnings of Modern Human Behavior

Scientists debate when these members of our species first began to act like modern humans. The ability to plan ahead is the most important indicator of human behavior, and additional clues lie in the ability to modify tools to improve them, the existence of trade networks, the practice of making art, the ritual of burying the dead, and the ability to speak. Early *Homo sapiens sapiens* had larynxes, but they did not begin to speak until sometime between 100,000 and 50,000 B.C.E. We cannot know precisely when because the act of speaking produces no lasting evidence in the archaeological record. Instead, paleontologists have identified certain human activities, such as organizing hunting parties to trap large game, as sufficiently complex to require speech. Speech may have begun because of a genetic mutation; scientists have identified a single gene on the Y chromosome (*FOXP2*) that only men carry. This finding suggests that women would have had to learn language by interacting with men, but many skeptical scientists await further confirmation of the language gene's existence.

Our forebears may have begun to leave Africa around 100,000 B.C.E., perhaps even earlier. In 2011, archaeologists found tools at the Jebel Faya site in modern United Arab Emirates that date to about 125,000 B.C.E. and resemble those made in Africa by anatomically modern humans. But the tools are so simple that scientists cannot be certain that modern humans made them. Because water levels differed at this time, only 3 miles (5 km) of water separated the Arabian peninsula from Africa. Some scientists doubt that any modern humans left Africa before 50,000 B.C.E., the date of the first conclusive evidence of humans outside Africa.

Several sites in South Africa have produced evidence of distinctly human behavior dating to around 75,000 B.C.E. Animal remains at the sites indicate that anatomically modern humans had developed spears and arrows sufficiently powerful to kill local antelope and seals. The Pinnacle Point site, outside Cape Town, has produced small stone blades that ancient humans attached to wooden arrow shafts. These remained in use for over 11,000 years, demonstrating that generations of humans passed the blade-making technology down to their children, a possible sign that the blade makers could speak and certain evidence that they had greater cognitive powers than earlier hominins.

Even more revealing, the humans living on the site of Blombos Cave, also in South Africa, showed a capacity for symbolic thinking, as evidenced in the production of red ochre art objects. (See the feature “Visual Evidence in Primary Sources: The First Art Objects in the World.”)

How Modern Humans Populated Asia, Australia, and Europe

To be able to migrate out of Africa and displace existing populations in Asia and Europe, modern humans had to behave differently from their forebears. Long-distance migration required forward planning and most likely speech. As the modern humans left Africa, they modified existing tools to suit new environments, and they devised boats or rafts to cross bodies of water. After crossing into Asia between 80,000 and 60,000 years ago, they proceeded to modern Indonesia, Papua New Guinea, and Australia, which they reached 50,000 years ago, the same time that they reached Europe. Europe was colder than Asia, and it was inhabited by Neanderthals, whom the modern humans displaced by 40,000 years ago. They traveled to the Americas last, reaching there by at least 14,000 B.C.E., if not earlier.

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The Settling of Asia, 80,000–60,000 B.C.E. Many archaeologists propose that the peoples living near the coast of Africa, near Djibouti and Somalia, crossed a land bridge to the Arabian peninsula (water levels were lower then) and continued to hug the coast of the Indian Ocean, eating shellfish and tropical fruit as they made their way south. The first humans to leave Africa probably did so without realizing they were leaving one landmass and going to another: they simply followed the coastline in search of food. It is most likely that multiple generations traveled short distances and kept on moving into new environments.

The earliest concrete archaeological evidence of the migration from Africa to Asia comes from Jwalapuram, India, where tools—but no human remains—dating to 74,000 B.C.E. have been found. The 215 stone tools and a piece of ochre are nearly identical to those found in Africa, an important clue to the origins of the travelers. Pieces of a human skull, found at Tam Pa Ling, Laos, and dating to 61,000–44,000 B.C.E., suggest a possible route from Southeast Asia to Australia, confirmed by a recent study of aboriginal peoples living in Australia, whose DNA suggested that the first wave of settlers arrived around 50,000 B.C.E. from New Guinea and the Philippines. These were Mungo Man’s forebears.

.....
The Settling of Australia, ca. 50,000 B.C.E. The farthest *Homo sapiens sapiens* traveled from Africa was to Australia. One of the most isolated places on earth, Australia provides a rich environment for animals, such as kangaroos, that are found nowhere else in the world. No animals from Eurasia, except for rodents and modern humans, managed to reach Australia.

Although oceans then lay about 250 feet (76 m) below modern levels, the body of water dividing Australia from the Greater Southeast Asian landmass was

The First Art Objects in the World

One site in Africa—Blombos Cave in South Africa—has produced some of the earliest art objects in the world. The Blombos Cave site, on the coast about 186 miles (300 km) east of Cape Town, dates to 100,000 B.C.E. and was occupied for long periods after that.

The occupants of Blombos Cave fished and hunted and made sets of fine bone tools, all of the same size. First they cut bone with stone tools and then polished it with leather and abrasive powder. They also mixed ocher with animal fat and some charcoal in two abalone shells (shown opposite) to make the earliest known paint and the earliest known container for human use in the world.* What did they use the ocher for? To color the earth? As a type of makeup? To make cave paintings? Whatever its use, it was entirely decorative, evidence of an early human desire to make something beautiful. The paint box also demonstrates the ability to plan ahead since early artists placed the ocher and tools for applying it in the shells for whenever they were needed.

The Blombos also produced nineteen snail shells, about the size of a kernel of corn, each with a hole through it (opposite, bottom). Traces of wear at the ends of the shells indicate that they were originally strung together to make a strand of beads, worn perhaps on the wrist or at the neck. The beads also show traces of ocher. The beads, archaeologists speculate, may have functioned at Blombos as they do among the Ju/'hoansi people who live in

the Kalahari Desert in Botswana and who are sometimes called Bushmen. Speakers of a language with many click sounds, the Ju/'hoansi present ostrich shell beads to other groups with whom they hope to form alliances.

The scientist who discovered these shells argued convincingly that these are very early signs of human creativity. A recent discovery suggests that they may be more than that. In 2007, archaeologists excavating the Pigeon Cave site in Morocco found similar shells dated between 91,000 and 74,000 years ago. These beads also have holes, abrasion marks at the ends where they were strung together, and traces of ocher. They are not from exactly the same species of snail as those from Blombos Cave, but the two species of snail look identical to the naked eye (one can see the differences between them only with a microscope). Other undated finds of similar shells in Israel and Algeria suggest that a trading network that spanned Africa and Israel may have existed as early as 82,000 years ago.

The shell tool kit, the bone tools, and the beads from Blombos reveal that their makers were able to produce beautiful objects because they had extra time and energy after meeting basic subsistence needs. These early objects clearly display the artistic impulses of their makers and suggest that *Homo sapiens sapiens* engaged in the recognizably human activity of making art objects as early as 75,000 B.C.E. and possibly even before.

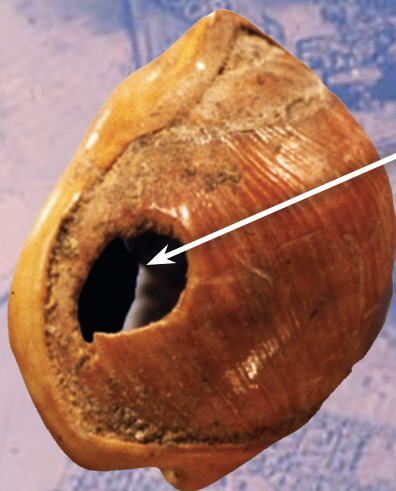
*John Noble Wilford, "In African Cave, Signs of an Ancient Paint Factory," *New York Times*, October 13, 2011.

This abalone shell contains a lump of ocher, the red mineral possibly used as a pigment for cave paintings.



Image courtesy of Prof Christopher Henshilwood

This abalone shell contained tools made from quartzite chips and different types of animal bone used to prepare and apply the paint. ***Which evidence from the archaeological record (including, but not limited to, the objects shown here) do you find most convincing as the earliest indication of people becoming recognizably human? Why?***



This shell bead (notice the hole) was found in Blombos Cave, some 186 miles (300 km) from Cape Town, where the cave's occupants hunted and fished around 75,000 B.C.E. The reddish tinge to the shell is from ocher, suggesting that the bead either was deliberately colored or came into contact with the skin of someone who was wearing ocher makeup. (Prof Christopher Henshilwood, University of Bergen, Norway)