Contents

Preface ix
About the authors xi
Acknowledgments xiii

Introduction 1

About the lessons About the data and software Geographic Inquiry and GIS Correlation to National Geography Standards Correlation to National Science Education Standards Correlation to National Technology Standards

Module 1 Current issues 12

Lesson 1: Mapping the U.N. millennium goals Lesson 2: The Local Traffic Report

Module 2 Tectonic processes 30

Lesson 1: Who is next?

Lesson 2: Mapping tectonic hot spots

Module 3 Climate and ecosystems 44

Lesson 1: Sibling rivalry Lesson 2: Windblown

Module 4 Population patterns and processes 64

Lesson 1: Generation gaps Lesson 2: Pyramids of people

Module 5 Political geography 80

Lesson 1: If I ruled the world Lesson 2: Trading places

Quick references

ArcMap toolbar reference 99
Extensions toolbar quick reference 101
ArcMap zoom and pan tools 103
Making quality maps 105
GIS terms 107
References and image credits 119
Data sources 121
Data license agreement 125
Installing the data and resources 127
Installing and registering the trial software 133