

Contents

CHAPTER 1 Geography: An introduction 2

Chapter glossary	3
1.1 The nature of geography	4
1.2 Becoming a geographer	7

SECTION 1 Earth's natural systems 12

CHAPTER 2 The uniqueness and diversity of Earth 14

Chapter glossary	15
2.1 Nature as a source of wonder	16
2.2 People's connection to the natural world	20
2.3 The universal value of Earth's environments	22
2.4 Earth's landscapes and biophysical features	24
Application and consolidation tasks	29

CHAPTER 3 Earth's natural systems at work 30

Chapter glossary	31
3.1 Earth's natural systems and their functioning	32
3.2 Atmospheric systems	35
3.3 Atmospheric processes	38
SKILLS BUILDER Interpreting synoptic charts	42
3.4 Global climate patterns	44
SKILLS BUILDER Investigating microclimates	48
3.5 Hydrological systems	50
SKILLS BUILDER Interpreting proportional circles	95
3.6 Geomorphic systems	59
3.7 Geomorphic processes	64
3.8 Ecological systems	69
Application and consolidation tasks	80

CHAPTER 4 Land cover change 82

Chapter glossary	83
4.1 Nature and extent of land cover	84
4.2 Land cover change: Natural causes	93
4.3 Land cover change: Human causes	99
SKILLS BUILDER Interpreting cartoons	101
4.4 Impacts of land cover change	102
Application and consolidation tasks	104

CHAPTER 5 Deforestation 106

Chapter glossary	107
5.1 Nature and spatial distribution of the world's forests	108
5.2 Deforestation and its impacts	112
5.3 Sustainable management of the world's forests	120
5.4 Deforestation in the Amazon Basin	126
Application and consolidation tasks	131

CHAPTER 6 Glaciers and ice sheets 132

Chapter glossary	133
6.1 The power of glacial ice	135
6.2 Glaciers and ice sheets as open systems	138
6.3 Land use change and glacier and ice sheet retreat	141
6.4 The extent and rate of glacier retreat	146
6.5 The impact of glacier and ice sheet retreat	152
6.6 Sustainable management: Banning heavy fuel use in Arctic shipping	158
Application and consolidation tasks	161

DIGITAL ONLY Desertification 162

Chapter glossary	163
G.1.1 Extent and rate of desertification	164
G.1.2 Changes in land use	166
G.1.3 Impacts of land cover change	169
G.1.4 Reforestation: Dealing with desertification	173
Application and consolidation tasks	176

SECTION 2 People, patterns and processes 178

CHAPTER 7 Human activity on Earth 180

Chapter glossary	181
7.1 The diversity and extent of human activity on Earth	182
7.2 Patterns of settlement	184
7.3 Patterns of infrastructure	186
7.4 Patterns of economic activity: Agriculture	190
7.5 Patterns of economic activity: Industrial production	196
7.6 Spatial pattern of the world's indigenous peoples	201
7.7 Patterns of the world's indigenous peoples	203
7.8 Spatial pattern of the world's languages	XXX
Application and consolidation tasks	205

CHAPTER 8 Our increasingly integrated world 206

Chapter glossary	207
8.1 The processes of economic and cultural integration	208
8.2 Drivers of international integration: Transport and telecommunications technologies	212
8.3 Drivers of international integration: World trade and the role of TNCs	216
8.4 Drivers of international integration: Cultural imperialism	222
8.5 Drivers of international integration: World cities	225
8.6 Drivers of international integration: Migration	234
8.7 Drivers of international integration: Tourism	235
Application and consolidation tasks	239

CHAPTER 9	Population and resource consumption	240
Chapter glossary 241		
9.1	The characteristics, growth and distribution of the world's human population	242
SKILLS BUILDER	Graphing data with a huge range of values	243
9.2	Factors shaping population change	251
SKILLS BUILDER	Interpreting population pyramids	256
CASE STUDY	Comparing the demography of Nigeria and Italy	258
9.3	Impacts of population change	260
9.4	Population and natural resources	266
Application and consolidation tasks 275		

CHAPTER 10	Place and cultural change	276
Chapter glossary 277		
10.1	Culture of place	278
CASE STUDY	A European lifestyle	288
10.2	Influences on the culture of place: the media	291
10.3	Influences on the culture of place: Fashion	297
10.4	Influences on the culture of place: Brand image	301
10.5	Influences on the culture of place: Sport and music	303
10.6	The impact of change and responses to it	307
10.7	Culture of place: Dubai	311
Application and consolidation tasks 316		

CHAPTER 11	Political power and contested spaces	318
Chapter glossary 319		
11.1	Geopolitical characteristics	320
CASE STUDY	Religious fundamentalism	326
11.2	Influences on political tensions and conflict	327
11.3	Impacts and responses to political tensions and conflict	335
11.4	Contested space: The South China Sea	339
Application and consolidation tasks 345		

DIGITAL ONLY	Human resilience in diverse environments	346
Chapter glossary 347		
G2.1	Challenging environments	348
G2.2	Environmental characteristics that contribute to human occupation	350
G2.3	Human ingenuity and resilience	353
CASE STUDY	A challenging environment: the polder lands of the Netherlands	359
Application and consolidation tasks 364		

SECTION 3 **Human–environment interactions** **366**

CHAPTER 12	Changes to Earth's natural systems	368
Chapter glossary 369		
12.1	Natural and human-induced change	370
12.2	Land cover change at a global scale	374
Application and consolidation tasks 377		

CHAPTER 13	Climate change	378
Chapter glossary 379		
13.1	Spatial and temporal characteristics of climate change	380
13.2	Environmental and human causes of climate change	386
13.3	Environmental and human impacts of climate change	392
CASE STUDY	The impact of climate change on the Great Barrier Reef	398
13.4	Climate change: Challenges, opportunities and responses	400
CASE STUDY	Costa Rica: Managing the effects of climate change	406
Application and consolidation tasks 409		

CHAPTER 14	Contemporary hazard: Bushfires	410
Chapter glossary 411		
14.1	Bushfires	412
CASE STUDY	Global Wildfires	420
14.2	Bushfire mitigation strategies	422
14.3	The Black Summer fires of 2019–2020	429
Application and consolidation tasks 441		

CHAPTER 15	Contemporary hazard: COVID-19	442
Chapter glossary 443		
15.1	Spatial dimensions and COVID-19	444
15.2	The natural environment and COVID-19	447
15.3	Human activity and COVID-19	451
15.4	Challenges and opportunities created by COVID-19	456
15.5	COVID-19 management in Australia	466
Application and consolidation tasks 469		

SECTION 4 **Geographical investigation** **470**

CHAPTER 16	Contemporary geographical inquiry	472
Chapter glossary 473		
16.1	The nature of geographical inquiry	474
16.2	Political debate, advocacy groups and the media	478
SKILLS BUILDER	Identifying media bias	481
SKILLS BUILDER	Identifying fake news	483

CHAPTER 17	Undertaking geographical investigation	486
Chapter glossary 487		
17.1	Planning and conducting a geographical investigation	488
SKILLS BUILDER	Methods of collecting data	497
SKILLS BUILDER	Using surveys and questionnaires	499
SKILLS BUILDER	Presenting data graphically	502
SKILLS BUILDER	Writing reports	502
SKILLS BUILDER	Preparing oral reports	504
SKILLS BUILDER	Preparing multimedia presentations	505
SKILLS BUILDER	Referencing sources	506
Index		XXX
Acknowledgements		XXX

Using Global Interactions 11

Structure

The text is organised into four sections, corresponding with the four focus areas of the Year 11 Geography Syllabus.

1 Earth's natural systems

This section focuses on key processes, cycles and circulations of the atmospheric, hydrological, geomorphic and ecological systems that form Earth's integrated system. It explores Earth's uniqueness and diversity, and land cover change. Three case study chapters investigate land cover change—a topic prominent in three syllabus focus areas.

Each case study chapter investigates one type of land cover, its nature and extent, the land cover changes, the natural and human factors involved, and management practices.

Students are provided with three studies:

- Deforestation
- Glaciers and Ice sheets
- Desertification (digital-only chapter)



2 People, patterns and processes

This section explores the extent of human activity on Earth's surface, the processes of our increasingly integrated world, and patterns of human populations and resource consumption. Three case study chapters investigate the role of different human processes in changing environments and shaping the unique character of places, with students developing an understanding through the study of one specific human process at work.

Students are provided with three studies:

- Place and cultural change
- Political power and contested spaces
- Human resilience in diverse environments (digital-only chapter)

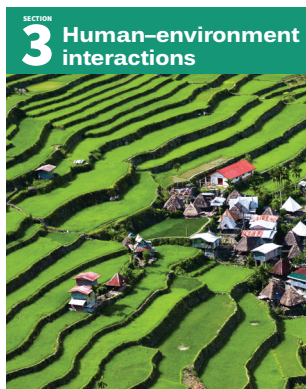


3 Human–environment interactions

This section explores the affect human interactions with the environment have on Earth's natural systems over time, and the impacts on land use and land cover. Three case study chapters investigate human–environment interactions to help develop an understanding of the natural and human components and their interactions with each other and the implications of these, with students developing understanding through the study of one specific human–environment interaction.

Students are provided with three studies:

- Climate Change
- Contemporary hazard: Bushfires
- Contemporary hazard: COVID-19



4 Geographical investigation

This section focuses on the Geographical Investigation students are required to undertake in Year 11.

