

# Contents

How to use ..... vi

<b>CHAPTER 1</b>	<b>Geography: An introduction</b>	<b>2</b>
<b>Chapter glossary</b> .....		<b>3</b>
1.1	The nature of geography .....	4
1.2	Becoming a geographer .....	6

## SECTION 1 Earth's natural systems 10

<b>CHAPTER 2</b>	<b>The uniqueness and diversity of Earth</b>	<b>12</b>
<b>Chapter glossary</b> .....		<b>13</b>
2.1	Nature as a source of wonder .....	14
2.2	People's connection to the natural world .....	17
2.3	The universal value of Earth's environments .....	19
2.4	Earth's landscapes and biophysical features .....	21
<b>Application and consolidation tasks</b> .....		<b>25</b>

<b>CHAPTER 3</b>	<b>Earth's natural systems at work</b>	<b>26</b>
<b>Chapter glossary</b> .....		<b>27</b>
3.1	Earth's natural systems and their functioning .....	28
3.2	Atmospheric systems .....	31
3.3	Atmospheric processes .....	34
<b>SKILLS BUILDER</b>	Interpreting synoptic charts .....	38
3.4	Global climate patterns .....	40
<b>SKILLS BUILDER</b>	Investigating microclimates .....	44
3.5	Hydrological systems .....	46
<b>SKILLS BUILDER</b>	Interpreting proportional circles .....	47
3.6	Geomorphic systems .....	55
3.7	Geomorphic processes .....	60
3.8	Ecological systems .....	65
<b>Application and consolidation tasks</b> .....		<b>76</b>

<b>CHAPTER 4</b>	<b>Land cover change</b>	<b>78</b>
<b>Chapter glossary</b> .....		<b>79</b>
4.1	Nature and extent of land cover .....	80
4.2	Land cover change: Natural causes .....	89
4.3	Land cover change: Human causes .....	95
4.4	Impacts of land cover change .....	98
<b>Application and consolidation task</b> .....		<b>101</b>

<b>CHAPTER 5</b>	<b>Deforestation</b>	<b>102</b>
<b>Chapter glossary</b> .....		<b>103</b>
5.1	Nature and spatial distribution of the world's forests .....	104
5.2	Deforestation and its impacts .....	108
5.3	Sustainable management of the world's forests .....	116
5.4	Deforestation in the Amazon Basin .....	122
<b>Application and consolidation tasks</b> .....		<b>127</b>

<b>CHAPTER 6</b>	<b>Glaciers and ice sheets</b>	<b>128</b>
<b>Chapter glossary</b> .....		<b>129</b>
6.1	The power of glacial ice .....	130
6.2	Glaciers and ice sheets as open systems .....	134
6.3	Land use change and glacier and ice sheet retreat .....	137
6.4	The extent and rate of glacial retreat .....	142
6.5	The impact of glacier and ice sheet retreat .....	148
6.6	Sustainable management: Banning heavy fuel use in Arctic shipping .....	154
<b>Application and consolidation tasks</b> .....		<b>157</b>

<b>CHAPTER G1</b>	<b>DIGITAL ONLY</b> Desertification	<b>2</b>
<b>Chapter glossary</b> .....		<b>3</b>
G1.1	Extent and rate of desertification .....	4
G1.2	Changes in land use .....	6
G1.3	Impacts of landcover change .....	9
G1.4	Reforestation: Dealing with desertification .....	13
<b>Application and consolidation tasks</b> .....		<b>17</b>

## SECTION 2 People, patterns and processes 158

<b>CHAPTER 7</b>	<b>Human activity on Earth</b>	<b>160</b>
<b>Chapter glossary</b> .....		<b>161</b>
7.1	The diversity and extent of human activity on Earth .....	162
7.2	Patterns of settlement .....	164
7.3	Patterns of infrastructure .....	166
7.4	Patterns of economic activity: Agriculture .....	170
7.5	Patterns of economic activity: Industrial production .....	176
7.6	Spatial pattern of the world's indigenous peoples .....	181
7.7	Spatial pattern of the world's languages .....	183
<b>Application and consolidation tasks</b> .....		<b>185</b>

<b>CHAPTER 8</b>	<b>Our increasingly integrated world</b>	<b>186</b>
<b>Chapter glossary</b> .....		<b>187</b>
8.1	The processes of economic and cultural integration .....	188
8.2	Drivers of international integration: Transport and telecommunications technologies .....	192
8.3	Drivers of international integration: World trade and the role of TNCs .....	196
8.4	Drivers of international integration: Cultural imperialism .....	202
8.5	Drivers of international integration: World cities .....	205
8.6	Drivers of international integration: Migration .....	214
8.7	Drivers of international integration: Tourism .....	215
<b>Application and consolidation tasks</b> .....		<b>219</b>

<b>CHAPTER 9</b>	<b>Population and resource consumption</b>	<b>220</b>
<b>Chapter glossary</b> ..... 221		
9.1	The characteristics, growth and distribution of the world's human population	222
<b>SKILLS BUILDER</b>	Graphing data with a huge range of values	223
9.2	Factors influencing population change	231
<b>SKILLS BUILDER</b>	Interpreting population pyramids	236
<b>CASE STUDY</b>	Comparing the demography of Nigeria and Italy	238
9.3	Impacts of population change	240
9.4	Population and natural resources	246
<b>Application and consolidation tasks</b> ..... 255		

<b>CHAPTER 10</b>	<b>Place and cultural change</b>	<b>256</b>
<b>Chapter glossary</b> ..... 257		
10.1	Culture of place	258
<b>CASE STUDY</b>	A European lifestyle	268
10.2	Influences on the culture of place: The media	271
10.3	Influences on the culture of place: Fashion	277
10.4	Influences on the culture of place: Brand image	281
10.5	Influences on the culture of place: Sport and music	283
10.6	The impact of change and responses to it	287
10.7	Culture of place: Dubai	291
<b>Application and consolidation tasks</b> ..... 297		

<b>CHAPTER 11</b>	<b>Political power and contested spaces</b>	<b>298</b>
<b>Chapter glossary</b> ..... 299		
11.1	Geopolitical characteristics	300
<b>CASE STUDY</b>	Religious fundamentalism	306
11.2	Influences on political tensions and conflict	307
11.3	Impacts and responses to political tensions and conflicts	315
11.4	Contested space: The South China Sea	319
<b>Application and consolidation tasks</b> ..... 325		

<b>CHAPTER G2</b>	<b>DIGITAL ONLY</b> Human resilience in diverse environments	<b>2</b>
<b>Chapter glossary</b> ..... 3		
G2.1	Challenging environments	4
G2.2	Environmental characteristics that contribute to human occupation	6
G2.3	Human ingenuity and resilience	9
<b>CASE STUDY</b>	A challenging environment: The polder lands of the Netherlands	16
<b>Application and consolidation tasks</b> ..... 21		

<b>SECTION 3</b>	<b>Human-environment interactions</b>	<b>326</b>
------------------	---------------------------------------	------------

<b>CHAPTER 12</b>	<b>Changes to Earth's natural systems</b>	<b>328</b>
<b>Chapter glossary</b> ..... 329		
12.1	Natural and human-induced change	330
12.2	Land cover change at a global scale	334
<b>Application and consolidation task</b> ..... 337		

<b>CHAPTER 13</b>	<b>Climate change</b>	<b>338</b>
<b>Chapter glossary</b> ..... 339		
13.1	Spatial and temporal characteristics of climate change	340
13.2	Environmental and human causes of climate change	346
13.3	Environmental and human impacts of climate change	352
<b>CASE STUDY</b>	The impact of climate change on the Great Barrier Reef	358
13.4	Climate change: Challenges, opportunities and responses	360
<b>CASE STUDY</b>	Costa Rica: Managing the effects of climate change	366
<b>Application and consolidation tasks</b> ..... 369		

<b>CHAPTER 14</b>	<b>Contemporary hazard: Bushfires</b>	<b>370</b>
<b>Chapter glossary</b> ..... 371		
14.1	Bushfires	372
<b>CASE STUDY</b>	Global wildfires	380
14.2	Bushfire mitigation strategies	382
14.3	The Black Summer fires of 2019–2020	389
<b>Application and consolidation tasks</b> ..... 401		

<b>CHAPTER 15</b>	<b>Contemporary hazard: COVID-19</b>	<b>402</b>
<b>Chapter glossary</b> ..... 403		
15.1	Spatial dimensions and COVID-19	404
15.2	The natural environment and COVID-19	407
15.3	Human activity and COVID-19	411
15.4	Challenges and opportunities created by COVID-19	416
15.5	COVID-19 management in Australia	426
<b>Application and consolidation tasks</b> ..... 429		

<b>SECTION 4</b>	<b>Geographical investigation</b>	<b>430</b>
------------------	-----------------------------------	------------

<b>CHAPTER 16</b>	<b>Contemporary geographical inquiry</b>	<b>432</b>
<b>Chapter glossary</b> ..... 433		
16.1	The nature of geographical inquiry	434
16.2	Political debate, advocacy groups and the media	438
<b>SKILLS BUILDER</b>	Identifying media bias	441
<b>SKILLS BUILDER</b>	Identifying fake news	443

<b>CHAPTER 17</b>	<b>Undertaking a geographical investigation</b>	<b>446</b>
<b>Chapter glossary</b> ..... 447		
17.1	Planning and conducting a geographical investigation	448
<b>SKILLS BUILDER</b>	Methods of collecting data	457
<b>SKILLS BUILDER</b>	Using surveys and questionnaires	459
<b>SKILLS BUILDER</b>	Presenting data graphically	462
<b>SKILLS BUILDER</b>	Writing reports	462
<b>SKILLS BUILDER</b>	Preparing oral reports	464
<b>SKILLS BUILDER</b>	Preparing multimedia presentations	465
<b>SKILLS BUILDER</b>	Referencing sources	466
<b>Index</b>		468
<b>Acknowledgements</b>		477

# 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 the Year 11 syllabus.

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 case study chapters:

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

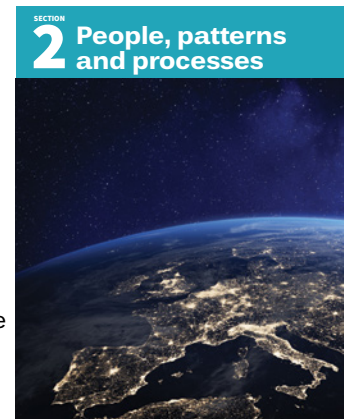


### 2 People, patterns and processes

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 case study chapters:

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

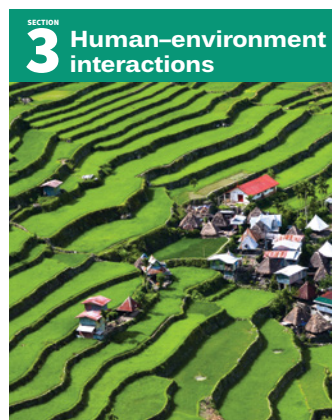


### 3 Human–environment interactions

This section explores the effects of human interactions with the environment on Earth's natural systems over time, and the impacts of humans 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 case study chapters:

- 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.

