

OXFORD

Junior Secondary
**Exploring
Geography**
Third Edition

Sample

**Summary of
changes and
Skill list**

Contents

Major overall changes

1	Using urban space wisely	2
2	Scramble for energy	6
3	Food problems	10
4	The trouble of water	14
5	Living with natural hazards	18
6	Global shift in manufacturing industry	22
7	Tourism	26
8	Oceans in trouble	30
9	Population problems	34
10	Taming the sand	38
11	Changing climate, changing environments	42

Major overall changes

Apart from **small-section design** for easy learning, there are a number of major changes as below.

LESS

is

MORE

LESS wordy



MORE practices, e.g.

writing training throughout the books

How can the Central–Wan Chai Bypass ease the transport problem in Central District? Support your answer with example or evidence.

- **Topic sentence:** The Central–Wan Chai Bypass can ease the problem of traffic congestion in Central District.

Checkpoints

Integrated exercises

LESS chalk-and-talk



MORE eResources for self-learning and interaction, e.g.

Flipped classroom activities



Guided animations for map-reading skills

multimedia resources with questions

eActivities (e.g. polling, word cloud, photo and text sharing)

Which of the following were the causes of the Po Shan Road landslide? (can choose more than one)

- Heavy rainfall
- Construction work on the slope
- Nature of the material on the slope
- Large slope gradient

SUBMIT



- 2 Do you think that Hong Kong can develop wind power on a large scale? Why or why not?

Unit 5: Let's explore 9 (p. 47)

Do you think that Hong Kong can develop wind power on a large scale?

- A Yes
 B No



Why?

LESS lecturing



MORE fun, e.g.

Scan me with games, quizzes and fun facts



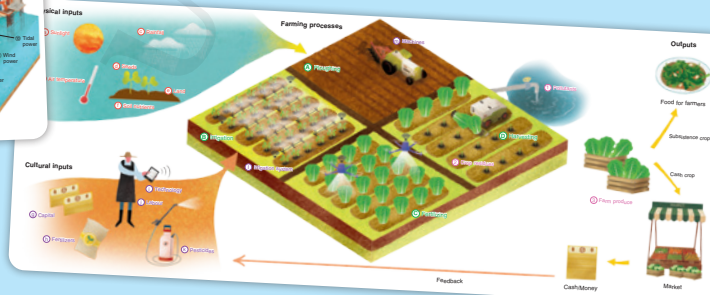
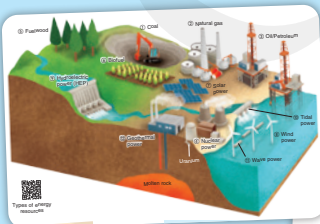
more attractive drawing and layout

more interesting and daily life examples

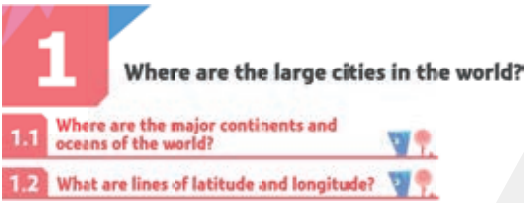

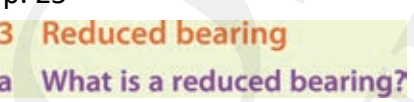
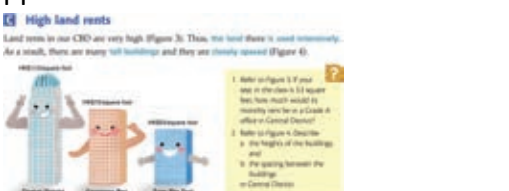
Famous mascot in Japan, Kumamon, may get married and have kids

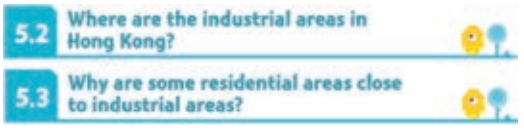
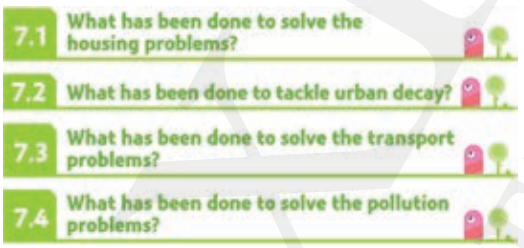

To ease the severe population problem in Japan, the minister in charge of population policies said that the famous mascot of Kumamoto Prefecture, Kumamon, will 'get married and have kids'.

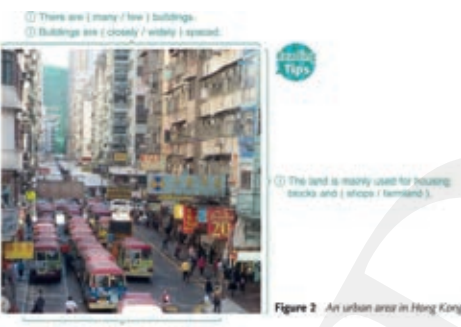



However, the local government of the prefecture denied this, saying Kumamon 'is only a child'.


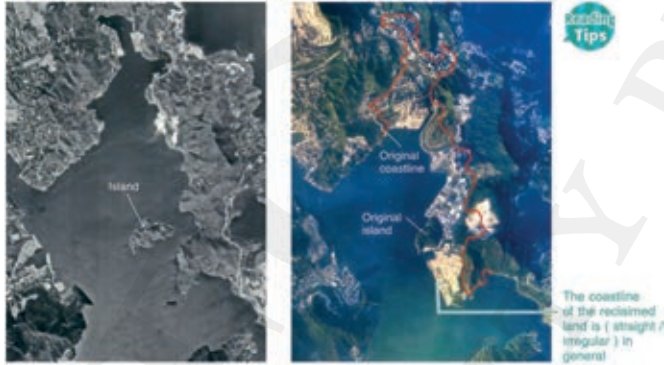


1 Using urban space wisely

Unit	Major change													
Whole book	e.g. pp. 10–11, 20, 51, 73–4, 79	Simplify the text and add in more images and drawings to make it easier for students to absorb and follow												
1	pp. 3–7 	Rearrange the text and add in a new unit about how to describe the locations of cities by using continents and oceans, as well as the lines of latitude and longitude. As the very first Geography lesson, this lets students have some basic concepts about location first												
2	pp. 13–15 	<ul style="list-style-type: none"> • Provide clearer and more detailed step-by-step explanations of finding four-figure and six-figure grid references respectively • Simplify the 1:20,000 maps so that students can read them more easily 												
3	pp. 22–3 <table border="1" data-bbox="279 1220 790 1512"> <thead> <tr> <th>Type of urban land use</th> <th>Distribution in Hong Kong</th> </tr> </thead> <tbody> <tr> <td>Commercial</td> <td>In the major commercial areas, e.g. ① _____ and ② _____</td> </tr> <tr> <td>Residential</td> <td> <ul style="list-style-type: none"> • Widely distributed in Hong Kong • The most major type of urban land use in Hong Kong </td> </tr> <tr> <td>Mixed (commercial and residential)</td> <td>Common in old urban areas such as Sham Shui Po, Mong Kok, Sheung Wan and Wan Chai</td> </tr> <tr> <td>Industrial</td> <td> <ul style="list-style-type: none"> • in old urban areas such as San Po Kong and Chai Wan • in industrial estates or areas in some new towns, e.g. _____ (name THREE examples) </td> </tr> <tr> <td>Institutional</td> <td>Widely spread out in Hong Kong</td> </tr> </tbody> </table>	Type of urban land use	Distribution in Hong Kong	Commercial	In the major commercial areas, e.g. ① _____ and ② _____	Residential	<ul style="list-style-type: none"> • Widely distributed in Hong Kong • The most major type of urban land use in Hong Kong 	Mixed (commercial and residential)	Common in old urban areas such as Sham Shui Po, Mong Kok, Sheung Wan and Wan Chai	Industrial	<ul style="list-style-type: none"> • in old urban areas such as San Po Kong and Chai Wan • in industrial estates or areas in some new towns, e.g. _____ (name THREE examples) 	Institutional	Widely spread out in Hong Kong	<ul style="list-style-type: none"> • Split the types and distribution of urban land uses in Hong Kong into two sections. This helps students learn one after another • Add in a table to clearly describe the distribution of major urban land uses in Hong Kong. This also helps students study the map on p. 22 more easily
Type of urban land use	Distribution in Hong Kong													
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Institutional	Widely spread out in Hong Kong													
	p. 25 	<ul style="list-style-type: none"> • Add in 'reduced bearing' to make the methods of showing direction complete • Move 'directions' to this unit to avoid students learning two map-reading skills in one unit as in the old edition, which was a bit hard for the students 												
4	pp. 29–30 	Describe the characteristics of the CBD in Hong Kong more clearly with new sub-headings and images												



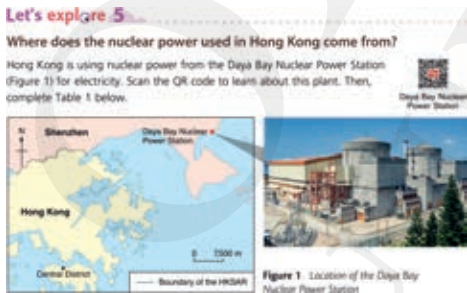
Unit	Major change	
4	p. 31 A Long history of development	Add in ‘Long history of development’ to make the discussion more complete
5	pp. 38–9 	Add in two sections about the locations of major industrial areas in Hong Kong and the reasons for having residential areas near industrial areas. This makes the discussion more complete and easier for students to follow
6	p. 48 A Housing problems a Inadequate housing supply b High housing prices	Add in two more housing problems in Hong Kong to make the discussion more complete
	p. 53 	Add in ‘Light pollution’ and the sources of each type of pollution to enrich the content
7	pp. 62–76 	Split the text into four sections with new section headings to help students better relate the solutions in this unit with corresponding urban problems in Unit 6 one by one
	p. 70 B Kowloon East in Hong Kong Similarly, the HKSAR government is redeveloping Kowloon East into the second CBD of Hong Kong. It covers the old industrial areas of Kwun Tong, Ngau Tau Kok, Kowloon Bay and the old site of the airport in Kai Tak (Figure 14).	Add in content about redevelopment in Kowloon East in Hong Kong to better compare the case of redevelopment of Canary Wharf in London
	pp. 75–6 D Solving solid waste pollution Waste reduction is an effective way to solve solid waste pollution. There are some measures to reduce waste (Figure 25). 	Expand and rewrite the content to help students learn one by one on how each type of pollution problems can be solved by corresponding solutions






Unit	Major skill													
–	pp. 10, 20, 51	<p>Interpret photographs</p> 												
–	pp. 16 (Q1b), 62, 65 (Q2)	<p>Support answers with map/photo evidence</p> <table border="1" data-bbox="566 649 1125 739"> <thead> <tr> <th>Reason</th> <th>Map evidence</th> </tr> </thead> <tbody> <tr> <td>The land is mainly used for housing blocks and shops</td> <td>There are _____ Estate and a _____ centre</td> </tr> </tbody> </table>	Reason	Map evidence	The land is mainly used for housing blocks and shops	There are _____ Estate and a _____ centre								
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The land is mainly used for housing blocks and shops	There are _____ Estate and a _____ centre													
–	pp. 22, 33, 64	<p>Describe distribution on maps</p>												
1	p. 4	<p>Describe a location</p> <p>b Where is Hong Kong located? Hong Kong is located in the _____ part of China.</p>												
	p. 7	<p>Locate a place with latitudes and longitudes</p> <table border="1" data-bbox="566 985 1013 1086"> <thead> <tr> <th></th> <th>City</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Helsinki</td> <td>60°N</td> <td>25°E</td> </tr> <tr> <td>2</td> <td></td> <td>40°N</td> <td>116°E</td> </tr> </tbody> </table>		City	Latitude	Longitude	1	Helsinki	60°N	25°E	2		40°N	116°E
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2	pp. 12, 94–5	<p>Identify conventional signs (with complete lists for 1:5,000 and 1:20,000 maps)</p> <p>Skills box A How can we show objects on a map using conventional signs?</p> <p>Appendix 1 Appendix 2 Conventional signs (for 1:20,000 map) Conventional signs (for 1:5,000 map)</p>												
	pp. 13–15	<p>Find out four-figure and six-figure grid references</p> <p>B How can we locate a place using grid references?</p>												
3	pp. 24–5	<p>Find direction by compass point, whole-circle bearing and reduced bearing</p> <p>Skills box How can we show direction on maps?</p>												
6	pp. 49–50	<p>Identify map scales</p> <table border="1" data-bbox="566 1736 1348 1915"> <thead> <tr> <th>Representative fraction (R.F.)</th> <th>Statement scale</th> <th>Linear scale</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> Show the scale in the form of a fraction For example, 1:20,000 can be written as $\frac{1}{20,000}$ </td> <td> <ul style="list-style-type: none"> Describe the scale in words For example, 1 cm to 200 m </td> <td> <ul style="list-style-type: none"> Show the scale on a line For example,  </td> </tr> </tbody> </table> <p>Measure actual direct distance/length on a map</p> <p>B How can we measure the actual direct distance between two places on a map?</p>	Representative fraction (R.F.)	Statement scale	Linear scale	<ul style="list-style-type: none"> Show the scale in the form of a fraction For example, 1:20,000 can be written as $\frac{1}{20,000}$ 	<ul style="list-style-type: none"> Describe the scale in words For example, 1 cm to 200 m 	<ul style="list-style-type: none"> Show the scale on a line For example,  						
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Unit	Major skill	
6	pp. 54–5	<p>Calculate population density</p> $\text{Population density} = \frac{\text{Number of people}}{\text{Total area}}$
	p. 56	<p>Interpret maps</p>  <p>Figure 11 An example of poor urban planning in Kowloon City</p>
	p. 57	<p>Read a two y-axes line graph and describe the trend</p>
7	p. 64	<p>Read aerial photographs</p>  <p>Figure 5a Tseung Kwan O in 1961</p> <p>Figure 5b Tseung Kwan O at present</p>
	pp. 65–6	<p>Calculate the size of an irregular object on maps</p> <p>Skills box</p> <p>How can we calculate the size of an irregular object on maps?</p>
	pp. 71–2	<p>Measure the actual length of a curved road on maps</p> <p>Skills box</p> <p>How can we measure the actual length of a curved road on maps?</p>
	p. 71 p. 74	<p>Write an argument in three standard steps</p> <p>3 How can the Central–Wan Chai Bypass ease the transport problem in Central District? Support your answer with example or evidence.</p> <ul style="list-style-type: none"> • Topic sentence: The Central–Wan Chai Bypass can ease the problem of _____ in Central District. • Explanation: This is because after building the bypass, cars (need / do not need) to enter the main roads in Central District, Wan Chai and Causeway Bay, e.g. Connaught Road Central and _____. This (increases / reduces) the traffic flow on these main roads. • Example/Evidence: This can be shown by the fact that the travel time between A and B has been largely (increased / reduced) by _____ minutes. <p>Serve as a revision</p> <p>How can reclamation help ease traffic congestion in the main urban areas? Explain your answer. (Hint: Follow the writing structure of Question 3 in Let's explore 11 on p. 71.)</p>

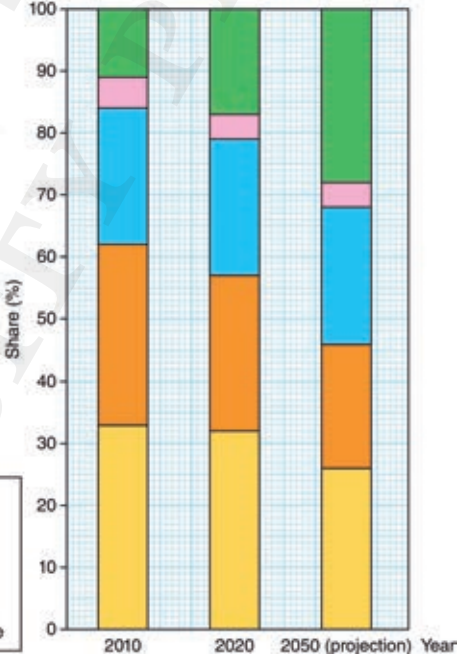
2

Scramble for energy

Unit	Major change											
<p>1</p> <p>pp. 4–5</p> 	<ul style="list-style-type: none"> • Add in photos and short descriptions about each energy resource to let students have a basic understanding of the energy resources • Remove the concepts about renewable and non-renewable energy resources in this introductory unit as students have not yet learned about the concept of fossil fuels 											
<p>2</p> <p>p. 13</p> <p>Countries, including China, that do not produce enough fossil fuels need to look for a reliable fuel supply. To do this, they may:</p> <ul style="list-style-type: none"> • maintain good relationships with the energy-exporting countries; • invest in the energy industry in the energy-exporting countries; • invest in building pipelines and shipping facilities to ensure smooth transport of fuels; and • develop their own alternative energy resources, such as solar power. 	<p>Add in content about the importance of energy security with the measures taken by various countries, including China, as an example according to the <i>Geography Curriculum Framework of National Security Education</i></p>											
<p>p. 14</p>	<p>Add in data about the fossil fuel consumption between MDCs and LDCs</p>											
<p>p. 16</p>	<p>Introduce shale oil and gas and a newer oil drilling technique</p>											
<p>4</p> <p>pp. 33–41</p> 	<ul style="list-style-type: none"> • Add in a new unit to separate nuclear power from renewable energy resources because the former is neither non-renewable nor fossil fuel • Provide more detailed explanation about current usage, generation, advantages, problems and future (nuclear fusion) of nuclear power with clear sub-headings 											
<p>pp. 33, 36–7</p> <p>Let's explore 5</p> <p>Where does the nuclear power used in Hong Kong come from?</p> <p>Hong Kong is using nuclear power from the Daya Bay Nuclear Power Station (Figure 1) for electricity. Scan the QR code to learn about this plant. Then, complete Table 1 below.</p> 	<p>Introduce the Daya Bay Nuclear Power Station and add in more detailed content about the nuclear disaster at Chernobyl according to the <i>Geography Curriculum Framework of National Security Education</i></p>											
<p>5</p> <p>pp. 42–4</p> <table border="1" data-bbox="256 1861 724 2024"> <tr> <td>Supply</td> <td>Their supply is infinite</td> </tr> <tr> <td>Availability</td> <td>Many of them are more widely available than fossil fuels</td> </tr> <tr> <td>Cleanliness</td> <td>Clean, emit no air pollutants and greenhouse gases during electricity generation</td> </tr> <tr> <td>Safety</td> <td>They are mostly safe. The risk of using them is low</td> </tr> <tr> <td>Cost</td> <td>Low running costs (except biofuels)</td> </tr> </table>	Supply	Their supply is infinite	Availability	Many of them are more widely available than fossil fuels	Cleanliness	Clean , emit no air pollutants and greenhouse gases during electricity generation	Safety	They are mostly safe . The risk of using them is low	Cost	Low running costs (except biofuels)	<p>Add in a section about the common advantages and the trends in the use of renewable energy resources to avoid repetitiveness of introducing the advantages of each renewable energy resource and enrich the content</p>	
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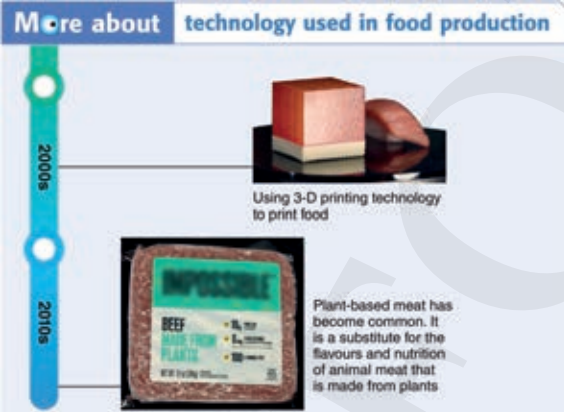


Unit	Major change	
	pp. 45–58	Rewritten and restructure the content of each renewable energy resource by adding in more sub-headings to enrich the content and make it clearer
	pp. 45, 47, 54, 55 	Introduce the actual examples of renewable energy resources (solar, wind, HEP and biofuels) found in Hong Kong to give students a more complete picture of the latest development of these resources in the city
6	pp. 61–2 	Introduce the concept of sustainable energy use and the two approaches (energy supply-side and energy demand-side) to solve energy problems . This makes the discussion more complete and easier for students to follow. The two approaches are reiterated when discussing the measures adopted in the Mainland and Hong Kong
	pp. 63–72 	Change the sequence about the solutions to energy problems to the following order to facilitate learning: 1 China (as students have learned about its energy problems in previous units) 2 World (to expand the scope of the study from national to global scale) 3 Hong Kong (as a case study at city level)
	pp. 68–9 	Provide the latest strategies put forward by Hong Kong's Climate Action Plan 2050 : • the new fuel mix target of using more zero-carbon energy • adoption of hydrogen
	pp. 70–1 	Provide more examples of the measures to cut down energy consumption in Hong Kong, with more photos and appealing cartoons to arouse students' interest in learning

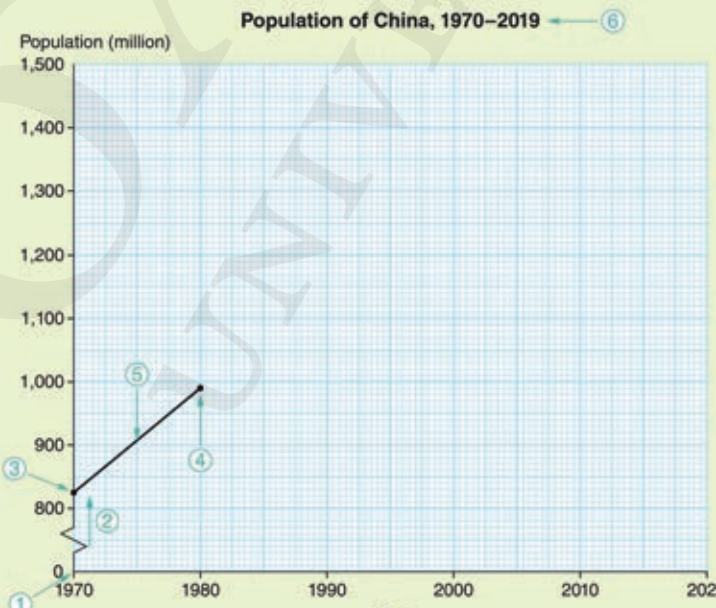
Unit	Major skill							
1	p. 3	<p>Describe a causal relationship with data support</p> <p>2 Are energy resources important to us? Support your answer with reference to Figure 1.</p> <table border="1" data-bbox="432 315 1406 472"> <thead> <tr> <th>Your view</th> <th>Connective term</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>Energy resources are (important / not important) to us</td> <td>because</td> <td></td> </tr> </tbody> </table>	Your view	Connective term	Reason	Energy resources are (important / not important) to us	because	
Your view	Connective term	Reason						
Energy resources are (important / not important) to us	because							
	p. 7	<p>Draw a pie chart</p> <p>Skills box</p> <p>How do we draw a pie chart?</p>						
2	p. 12	<p>Read grouped bar graphs</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="392 712 858 1146"> <p>b Oil</p> <p>USA: Production ~17, Consumption ~18 Russia: Production ~12, Consumption ~3 Australia: Production ~1, Consumption ~1 Saudi Arabia: Production ~12, Consumption ~3 India: Production ~1, Consumption ~5 China: Production ~1, Consumption ~1</p> <p>Surplus (Production > Consumption) for Saudi Arabia Deficit (Production < Consumption) for India and China</p> </div> <div data-bbox="863 712 1329 1146"> <p>c Natural gas</p> <p>USA: Production ~900, Consumption ~850 Russia: Production ~700, Consumption ~450 Australia: Production ~150, Consumption ~50 Saudi Arabia: Production ~100, Consumption ~100 India: Production ~50, Consumption ~100 China: Production ~10, Consumption ~10</p> <p>Balance (Production = Consumption) for Saudi Arabia</p> </div> </div>						
p. 13	<p>Describe rate of change in a multiple line graph</p> <p>Reading Tips</p> <p>Rate of change (1990–2018):</p> <ul style="list-style-type: none"> ① Steady increase throughout the period ② Steady increase between 1990–2002 ③ Rapid increase between 2002–2014 ④ Slight decrease between 2014–2018 <p>Note: Btu stands for British thermal units. 1,000 Btu is approximately 293 watts. Source: USEIA</p>							
3	p. 21	<p>Read a compound line graph</p> <p>Energy consumption (billion tonnes of oil equivalent)</p> <p>2019 Consumption:</p> <ul style="list-style-type: none"> Natural gas: 11.8 - 8.4 = 3.4 billion tonnes Oil: 8.4 - 3.8 = 4.6 billion tonnes Coal: 3.8 - 0 = 3.8 billion tonnes Total consumption: 11.8 billion tonnes <p>Reading Tips</p>						


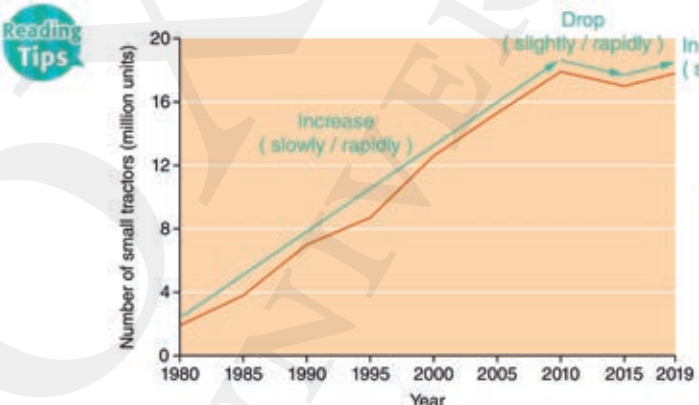
Unit	Major skill																									
p. 22	<p>Describe a trend from a line graph</p> <table border="1" data-bbox="395 275 1410 510"> <thead> <tr> <th></th> <th>What does it show?</th> <th>What is the trend?</th> </tr> </thead> <tbody> <tr> <td>Figure 1</td> <td>Global consumption of _____</td> <td>(Increase / No change / Decrease)</td> </tr> <tr> <td>Figure 2</td> <td></td> <td></td> </tr> <tr> <td>Figure 3</td> <td></td> <td></td> </tr> </tbody> </table>			What does it show?	What is the trend?	Figure 1	Global consumption of _____	(Increase / No change / Decrease)	Figure 2			Figure 3														
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5	<p>Describe a causal relationship</p> <table border="1" data-bbox="395 577 1410 797"> <tbody> <tr> <td>Is it finite?</td> <td>It is (finite / infinite) as there is always _____</td> <td></td> </tr> <tr> <td>Is it clean?</td> <td>It (is / is not) clean because it does not emit any _____ or _____</td> <td></td> </tr> </tbody> </table>		Is it finite?	It is (finite / infinite) as there is always _____		Is it clean?	It (is / is not) clean because it does not emit any _____ or _____																			
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p. 43	<p>Read a divided/stacked bar graph</p> <p>B Trends in the use of renewable energy resources</p> <p>Renewable energy resources are becoming more important in the world (Figure 1).</p> <div data-bbox="395 1070 932 1339" style="background-color: #ffffcc; padding: 5px;"> <p>1 What are the percentage shares of each energy resource in 2010? (Hint: Refer to the Reading tips in Figure 1 on p. 21.)</p> <p>2 a Which type of energy resource has the largest increase in percentage share from 2010 to 2050?</p> <p>b What are its percentage shares in 2020 and 2050?</p> </div> <div data-bbox="395 1413 501 1435" style="font-size: small;"> <p>Source: USEIA</p> </div> <div data-bbox="395 1447 778 1532" style="font-size: small;"> <p>Figure 1 Percentage share of the global consumption of energy resources in 2010, 2020 and 2050</p> </div>  <table border="1" data-bbox="783 1346 979 1525"> <thead> <tr> <th>Energy Resource</th> <th>2010</th> <th>2020</th> <th>2050 (projection)</th> </tr> </thead> <tbody> <tr> <td>Oil</td> <td>33%</td> <td>32%</td> <td>26%</td> </tr> <tr> <td>Coal</td> <td>29%</td> <td>25%</td> <td>20%</td> </tr> <tr> <td>Natural gas</td> <td>22%</td> <td>21%</td> <td>22%</td> </tr> <tr> <td>Nuclear power</td> <td>10%</td> <td>10%</td> <td>10%</td> </tr> <tr> <td>Renewable energy resource</td> <td>6%</td> <td>12%</td> <td>22%</td> </tr> </tbody> </table>		Energy Resource	2010	2020	2050 (projection)	Oil	33%	32%	26%	Coal	29%	25%	20%	Natural gas	22%	21%	22%	Nuclear power	10%	10%	10%	Renewable energy resource	6%	12%	22%
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Renewable energy resource	6%	12%	22%																							
p.44	<p>Draw a divided/stacked bar graph</p> <p>Skills box</p> <p>How do we draw a divided/stacked bar graph?</p>																									
p. 50	<p>Describe importance with data support</p> <p>2 How would you describe the importance of China in global HEP generation? Support your answer with data.</p>																									

3 Food problems

Unit	Major change	
1	pp. 3–13 	Restructure the whole unit and rewrite part of the content to give a solid background to students for learning the units that follow
	pp. 8–12 	Change the sequence of the two sections. This is to facilitate learning by letting students acquire the knowledge on how farming activities are classified first, and then enhance their understanding by showing different types of farming activities in the world as real examples
3	pp. 22–6 	Rearrange and rewrite the content to give students a general idea about the food demand and supply in China before learning its major farming problems that affects its food supply in the next unit
	p. 22 Food is important for all living things. It provides energy and nutrition to us. Without food, we cannot survive. Food is also important for the security and development of a country: <ul style="list-style-type: none"> • With enough food supply, people have energy to work. This enhances economic growth; • When a country does not have enough food to feed its people, people will suffer from hunger and poor nutrition. Food shortages may occur. This will slow down the country's economic development, or even result in social unrest. Therefore, it is essential to maintain a stable food supply to feed the people. Do you know how many people in China need to be fed?	Add in the content about the importance of food to highlight the importance of Resource Security (e.g. food resources) according to the <i>Geography Curriculum Framework of National Security Education</i>
4	pp. 30–9 	Rewrite and rearrange the farming problems under three sections (4.1–4.3) rather than grouping the farming problems into physical and human ones. This facilitates learning by breaking down the big section into smaller ones and highlighting the major farming problems
5	pp. 41–56 	Merge, rewrite and rearrange the content so that the advantages and negative impacts of each scientific farming method are put in the same section to facilitate learning


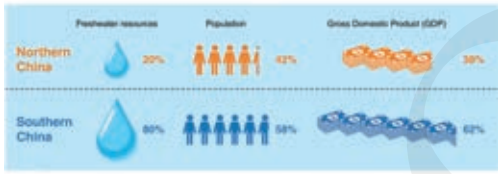
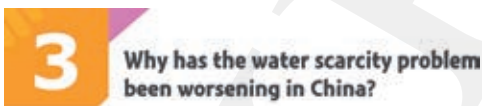
Unit	Major change	
5	<p>p. 50</p> <p>Let's explore 11</p> <p>Ugly food—Safe food?</p> <p>Figures 14a and 14b show two sets of eggplants respectively.</p>   <p>Figure 14a Figure 14b</p> <p>1 Refer to the two photographs. Suppose the eggplants shown are sold at the same price, which set would you choose?</p> <p>2 The eggplants shown in Figure 14b is modified by genetic engineering. If you have chosen to buy these eggplants, will you still stick with this choice? Why?</p>	<p>Add in class activity about GM food to arouse students' interests, as GM food is commonly available in our daily life</p>
	<p>p. 53</p> <p>More about technology used in food production</p> 	<p>Provide the timeline about the advancement in technology used in food production since the 1960s to arouse students' interests</p>
6	<p>pp. 65–6</p> <p>Measure</p> <p>1 Maintain the total area of farmland To prevent further loss of arable land, the central government has reserved 104 million hectares of farmland as prime farmland</p> <p>2 Restrict farming in areas with poor soil The central government introduces land use planning and laws to restrict farming in areas with poor soil</p> <p>3 Restore degraded land The central government introduces some policies to restore degraded land, for example, by turning degraded farmland back to woodland or grassland, and by replanting vegetation on eroded slopes.</p>  <p>Woodland restored in Chongqing</p> <p>How it protects farmland</p> <p>Development on prime farmland is restricted. This helps protect farmland from being converted to other land uses</p> <p>These policies can prevent soil erosion and desertification → Help protect the productive farmland nearby</p>	<p>Simplify and rearrange certain content into charts and diagrams (Figures 8 and 9) to help students grasp the main points easily</p>
7	<p>pp. 73–7</p> <p>7.2 What are the causes of food shortages in the Sahel? What are the solutions?</p> 	<p>Simplify and rewrite part of the content to make it easier for students to follow</p>

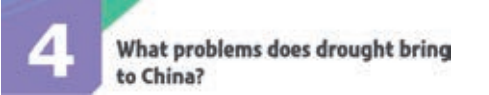

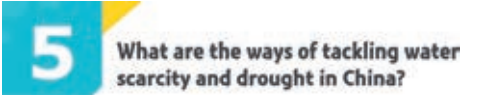
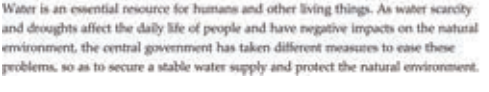






Unit	Major skill							
1	p. 9	<p>Explain answers with evidence</p> <p>Which farm carries out intensive farming? Explain your answer with evidence from Table 3. Farm _____ carries out intensive farming. Table 3 shows that, compare to another farm, this farm has a _____ level of input per unit area of land [including (more / fewer) workers (Farm X has 2.5 workers/hectare while Farm Y has 0.01 worker/hectare) and (more / fewer) machines (Farm X uses _____ machine/hectare while Farm Y uses _____ machine/hectare)]. In addition, this farm has a (higher / lower) output per unit area of land (Farm X has 8.8 tonnes/hectare while Farm Y has 1.9 tonnes/hectare).</p>						
2	p. 14	<p>Identify geographical features from a photo</p> <p>Refer to the photograph shown in Figure 1, identify the type of farming practised in the province. Tick '✓' the appropriate answer(s).</p> <p><input type="checkbox"/> Arable <input type="checkbox"/> Pastoral <input type="checkbox"/> Intensive <input type="checkbox"/> Extensive</p>						
	p. 16	<p>Explain answers with data support</p> <p>Which place is suitable for growing paddy? Explain your answer with reference to the data given in Figures 3 and 4. Complete the paragraphs below.</p> <p>Place (X / Y) is suitable for growing paddy.</p> <p>This place has a (high / low) summer temperature (_____ °C) and a (moderate / low) winter temperature (_____ °C). It also has a (high / low) annual rainfall (_____ mm).</p>						
3	p. 23	<p>Draw a line graph</p> <p>Skills box</p> <p>How do we draw a line graph showing the population of China?</p> <p>A line graph is used to show changes over a period of time. It is useful to show trends. Refer to Table 1 on p. 22, follow the steps below to draw a line graph showing the population of China from 1970 to 2019.</p> <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  <table border="1" style="margin-top: 10px;"> <caption>Population of China, 1970-2019</caption> <thead> <tr> <th>Year</th> <th>Population (million)</th> </tr> </thead> <tbody> <tr> <td>1970</td> <td>830</td> </tr> <tr> <td>1980</td> <td>1,000</td> </tr> </tbody> </table> </div> <div style="flex: 1; padding-left: 20px;"> <ol style="list-style-type: none"> ① Find the year 1970 on the x-axis. ② From the point of 1970, move up and find 830 on the y-axis. ③ Draw a dot at this point. This represents the population of China in 1970. ④ Repeat the above three steps for the other years. ⑤ Join the dots with a line. ⑥ Give a title to the line graph. </div> </div>	Year	Population (million)	1970	830	1980	1,000
Year	Population (million)							
1970	830							
1980	1,000							

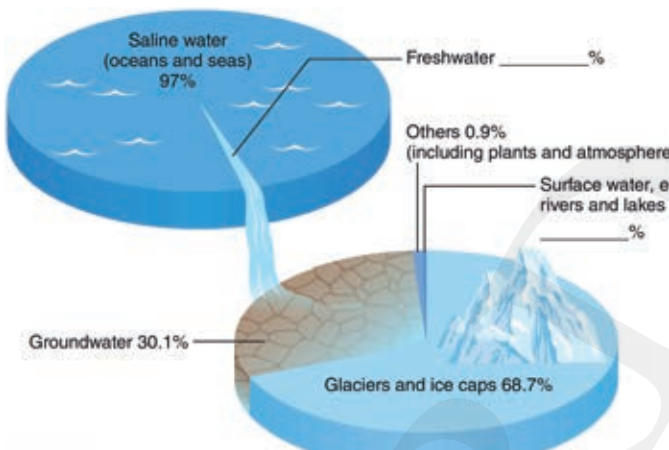
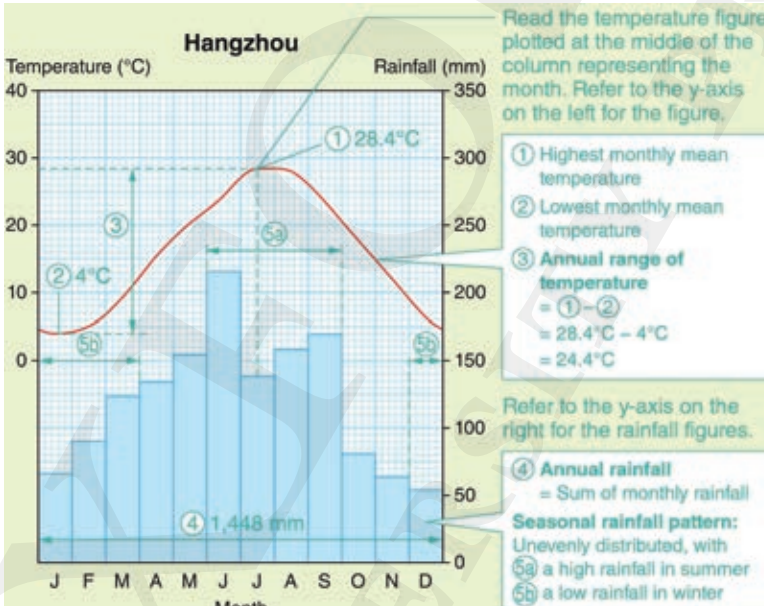
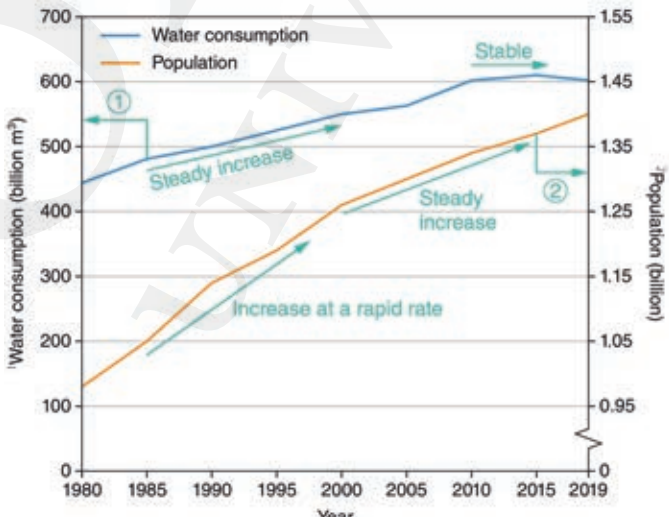
Unit	Major skill																															
	p. 24	<p>Interpret data from table</p> <table border="1" data-bbox="375 264 1181 548"> <thead> <tr> <th></th> <th>1990</th> <th>2000</th> <th>2010</th> <th>2019</th> </tr> </thead> <tbody> <tr> <td>Per capita income (RMB)</td> <td>1,510</td> <td>6,256</td> <td>10,382</td> <td>42,359</td> </tr> <tr> <td>Grains (kg)</td> <td>131</td> <td>82</td> <td>82</td> <td>111</td> </tr> <tr> <td>Meat (including pork, beef, mutton and poultry meat) (kg)</td> <td>25</td> <td>26</td> <td>35</td> <td>36</td> </tr> <tr> <td>Milk (kg)</td> <td>5</td> <td>10</td> <td>14</td> <td>17</td> </tr> </tbody> </table> <p>Reading Tips</p> <p>by 15%</p> <p>by 44%</p> <p>Increased by 240%</p>		1990	2000	2010	2019	Per capita income (RMB)	1,510	6,256	10,382	42,359	Grains (kg)	131	82	82	111	Meat (including pork, beef, mutton and poultry meat) (kg)	25	26	35	36	Milk (kg)	5	10	14	17					
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4	p. 32	<p>Draw a bar graph</p> <p>Skills box</p> <p>How do we draw a bar graph to show the changes in the area of arable land in China?</p>																														
	p. 33	<p>Read/Interpret aerial photograph</p>  <p>Green areas with lined texture: Farmland</p>																														
5	p.47	<p>Describe a trend from a line graph</p>  <p>Circle the correct answers to describe the trend of using small tractors in China in the period shown.</p>																														
6	p. 62	<p>Interpret data from table</p> <table border="1" data-bbox="375 1848 1316 2038"> <thead> <tr> <th>Chemical</th> <th>Year</th> <th>2012</th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> <th>2018</th> <th>2019</th> </tr> </thead> <tbody> <tr> <td>¹Chemical fertilizers (million tonnes)</td> <td></td> <td>58</td> <td>59</td> <td>60</td> <td>60</td> <td>60</td> <td>59</td> <td>57</td> <td>54</td> </tr> <tr> <td>²Pesticides (million tonnes)</td> <td></td> <td>2.9</td> <td>3.0</td> <td>3.7</td> <td>1.8</td> <td>1.7</td> <td>1.7</td> <td>1.5</td> <td>—</td> </tr> </tbody> </table> <p>Reading Tips</p> <p>Reduce since 2016</p> <p>Sharp decrease since 2014</p>	Chemical	Year	2012	2013	2014	2015	2016	2017	2018	2019	¹ Chemical fertilizers (million tonnes)		58	59	60	60	60	59	57	54	² Pesticides (million tonnes)		2.9	3.0	3.7	1.8	1.7	1.7	1.5	—
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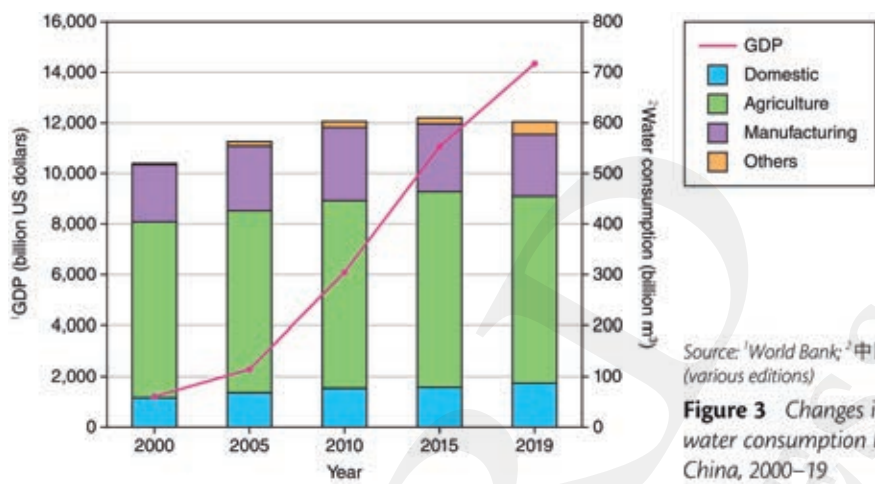





4

The trouble of water

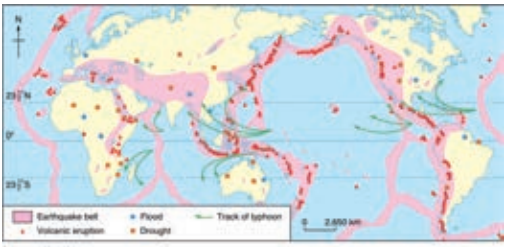




Unit		Major change
1	<p>pp. 3–5</p> 	<p>Rearrange the content about distribution of freshwater on the earth and where it comes from to become Unit 1 in this edition. This serves as an introduction to whether there is enough water for the whole world</p>
2	<p>pp. 11–12</p> <p>A Water scarcity</p> <p>As shown above, China has a large amount of total freshwater resources. However, with a large population, the amount of freshwater resources per capita is low. This means that the freshwater resources available in the country may not be able to meet its people's needs. It is a matter of imbalance between water supply and demand.</p> <p>On the other hand, there are regional and seasonal differences in water scarcity in China. In northern China, water scarcity is particularly serious (Figure 2). Winter is also the season when water scarcity is more severe.</p>  <p>Source: China Statistical Yearbook 2019</p> <p>Figure 2 Shares of northern and southern China to the national total in terms of freshwater resources, population and GDP</p> <p>Can you explain why northern China has a higher level of water scarcity?</p>	<p>Add in a new section about the major water problems in China and introduce the concept of water scarcity, which has already been identified as a major global water problem by the United Nations, and is closely related to the <i>Geography Curriculum Framework of National Security Education</i> as it is a major threat to the national Resource Security</p>
3	<p>pp. 21–8</p> 	<p>Unit 3 is newly added to address the water problem caused by the worsening of water scarcity. As water pollution is one of the reasons for causing the worsening of water scarcity, the related content in the second edition is rewritten and put in this unit under Section 3.2 'Why is the supply of clean freshwater decreasing?'</p>
	<p>p. 26</p> <p>More about the impact of water pollution</p> <p>Water pollution not only reduces the supply of clean freshwater in China, but also leads to negative impacts on human health, the aquatic ecosystem and biodiversity.</p> <p>When people consume contaminated water, or food produced or grown using polluted water, they will get sick. Thus, water pollution poses a great threat to public health.</p> <p>On the other hand, domestic waste, agricultural pollutants and industrial sewage contain toxic chemicals, organic matter and heavy metals. When these harmful substances are discharged into water in large quantities, they will pollute the habitat of living things in the water, cause disease in living things or even kill them. The aquatic ecosystem and biodiversity are threatened.</p>  <p>Figure 8 A polluted river in China</p>	<p>Rewrite and rearrange the content about the impact of water pollution as More about. This improves the flow and illustrates more clearly how water pollution affects Ecological Security according to the <i>Geography Curriculum Framework of National Security Education</i></p>
	<p>p. 27</p> <p>B Depletion of groundwater</p>	<p>Add in content about depletion of groundwater to enrich the content</p>


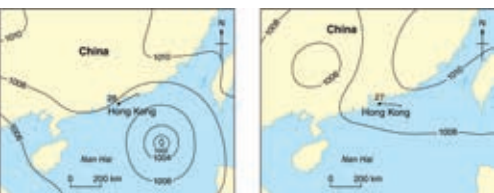

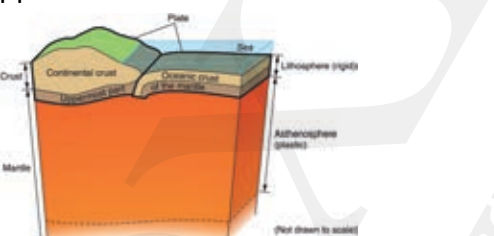
Unit		Major change
4	<p>pp. 32–9</p> 	<p>Restructure and rewrite the whole unit (mentioning definition, impact, distribution and causes of drought only) to reduce the extent</p>
	<p>p. 37</p> 	<p>Add in ‘More about drought and aridity’ to clarify the misconception between the two terms</p>
5	<p>pp. 41–7</p> 	<p>Rewrite and restructure the solutions to water problems introduced in units 3 and 4 as Unit 5. This helps students grasp the content better by mentioning the measures right after the problems</p>
	<p>p. 41</p> 	<p>Rewrite text to highlight the importance of tackling water scarcity and drought for the water resource security (i.e. Resource Security) according to the <i>Geography Curriculum Framework of National Security Education</i></p>
	<p>p. 44</p>  	<p>Add in ‘More about measures to ease water pollution in China’ to enrich the content and highlight the efforts that the central government has paid to deal with water pollution in order to maintain Ecological Security according to the <i>Geography Curriculum Framework of National Security Education</i></p>
6	<p>pp. 48–50</p> 	<p>Simplify the content about Singapore so that it focuses on the water problems of water scarcity and drought. Then it is put after the solutions of water scarcity and drought in China to make the flow more logical, coherent and easier for students to follow</p>
6	<p>pp. 52–60</p> 	<p>Restructure and rewrite the whole unit (mentioning definition, impact, distribution and causes of flooding only) to reduce the extent of the unit</p>
7	<p>pp. 61–7</p> 	<p>Rewrite and restructure the solutions to flooding as Unit 7. This aligns with the treatment of the solutions to drought and water scarcity</p>
	<p>pp. 68–73</p>  <p>A Experience of Bangladesh B Experience of the UK C Differences in flood control measures and the reasons behind</p>	<ul style="list-style-type: none"> • Simplify the content and keep focus on the flooding problems in Bangladesh and the UK to make the flow more logical and align with the treatment of Singapore • Enrich the content by explaining why the flood control measures taken by Bangladesh are different from the UK

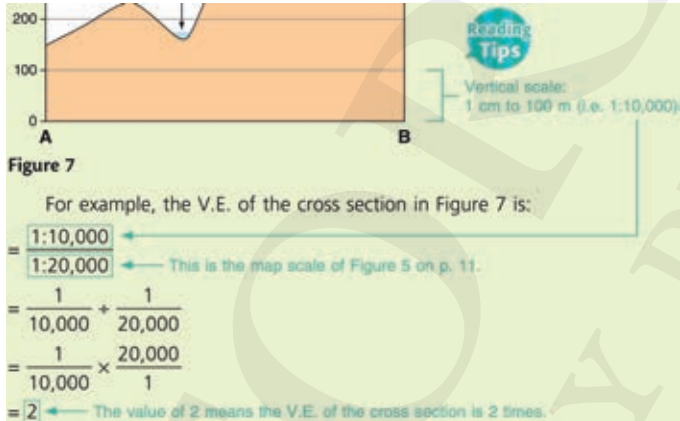

Unit	Major skill	
1	p. 3	<p>Read pie charts and calculate the percentage share</p>  <p>Source: USGS</p> <p>Figure 1 The distribution of water on the earth</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>1 Complete the blanks in Figure 1.</p> <p>2 Calculate the percentage share of surface water in all water on the earth. (Hint: It can be calculated by the formula below.)</p> $\% \text{ share of freshwater in all water on the earth} \times \% \text{ share of surface water in freshwater}$ </div>
2	p. 17	<p>Read a climatic graph</p>  <p>Hangzhou</p> <p>Temperature (°C) Rainfall (mm)</p> <p>① 28.4°C</p> <p>② 4°C</p> <p>③ Annual range of temperature = ① - ② = 28.4°C - 4°C = 24.4°C</p> <p>④ Annual rainfall = Sum of monthly rainfall</p> <p>⑤a a high rainfall in summer</p> <p>⑤b a low rainfall in winter</p> <p>Seasonal rainfall pattern: Unevenly distributed, with</p>
3	p. 22	<p>Read a two y-axes line graph</p>  <p>Water consumption (billion m³) Population (billion)</p> <p>Steady increase</p> <p>Increase at a rapid rate</p> <p>Steady increase</p> <p>Stable</p> <p>Year</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Reading Tips</p> <p>When reading a graph with two y-axes, make sure you refer to the correct y-axis for a particular curve.</p> <p>① Refer to the values of the y-axis on the left for the amount of water consumption.</p> <p>② Refer to the values of the y-axis on the right for population data.</p> </div>

Unit	Major skill	
3	pp. 22–3	<p>Read a divided/stacked bar graph</p>  <p>Source: ¹World Bank; ²中國水資源公報 (various editions)</p> <p>Figure 3 Changes in GDP and water consumption by sector in China, 2000–19</p> <p>1 Refer to Figure 3. Describe the general trends in GDP and total water consumption. </p> <p>2 What is the relationship between economic development and water consumption?</p>
	p. 24	<p>Answer with evidence</p> <p>1 How would you describe the water quality of the main tributaries of the Liao He and Chao Hu? Give evidence to support your answer.</p>
6	p. 52	<p>Interpret photographs</p>   <p>Figure 1a Figure 1b</p> <p>1 Are the two photographs showing the same place? Give photo evidence to support your answer.</p> <p>2 What has happened to the area shown in Figure 1b? Give photo evidence to support your answer.</p>
	p. 59	<p>Read satellite images</p>   <p>Figure 11a Dongting Hu in 1984 Figure 11b Dongting Hu in 2020</p>

5 Living with natural hazards

Unit	Major change	
1	<p>p. 6</p> 	<p>Add in a map to show the global distribution of selected natural hazards to explain more clearly why the distribution of different natural hazards varies from one another</p>
	<p>pp. 16–17</p> <p>A Study the spacing of contour lines</p> <p>B Calculate slope gradient</p>	<p>Restructure the content about the steepness of a slope with new sub-headings to explain the concept more clearly</p>
	<p>pp. 21–2</p> 	<p>Add in other common relief features found on contour maps to enrich the content. This gives students a more comprehensive understanding of common relief features</p>
	<p>p. 23</p> <p>2.5 How can we describe the relief of Hong Kong?</p> 	<p>Move the content about the relief of Hong Kong to the end of this unit. This facilitates learning by allowing students to learn the ways to show relief on a map and common relief features first, before describing the relief of Hong Kong</p>
3	<p>p. 27</p> <p>3.1 What are landslides?</p> 	<p>Restructure the content of this unit by explaining what landslides are and where they occur (i.e. on natural terrain and man-made slopes) before describing the effects of landslides. This facilitates learning</p>
	<p>p. 35</p> <p>A Preventive measures</p> <p>a Building barriers</p> <p>Landslides that occur on <i>natural terrain</i> may cause serious damage to settlements nearby. To prevent slope materials from rushing down to these settlements, <i>barriers can be built</i> on the slope or at the bottom of the slope (Figures 13 and 14). This <i>reduces the loss of life and property.</i></p>  <p>Refer to Figures 13 and 14.</p> <ol style="list-style-type: none"> Which of the barriers is easier to install? Which of the barriers can stop more slope materials from rushing down? Is building barriers a good measure to prevent landslides in built-up areas? Why? 	<p>Add in measures for tackling landslides on natural terrain (building barriers). This makes the content more complete</p>

Unit	Major change	
4	<p>p. 48</p>  <p>a Air temperature (°C or °F) measures the amount of heat in the air</p> <p>b Wind direction (N, E, S, W) and wind speed (m/s) measure the movement of air</p> <p>c Air pressure (hectopascal, hPa) measures the weight of air</p> <p>d Precipitation (mm) measures the amount of water falling from the sky in the form of rain, snow, etc.</p> <p>e Relative humidity (%) measures the amount of moisture in the air</p> <p>f Sunshine duration (hour) measures the total amount of time that a place can receive sunshine</p>	<p>Rearrange the content by introducing the concepts of weather and climate at the beginning of this unit. This provides background information for students to learn concepts taught later in the unit</p>
	<p>pp. 54–5</p> 	<p>Use simplified weather charts to make it easier for students to learn how to read a weather chart and to identify changes in weather elements under the influence of a typhoon</p>
5	<p>p. 62</p> <p>Let's explore 10</p> <p>Experiment: What happens when the ground shakes?</p>	<p>Add in an experiment to simulate ground shaking. This provides a general understanding of the possible effect caused by earthquakes and arouses students' learning interest</p>
	<p>p. 63</p> 	<ul style="list-style-type: none"> • Rewrite the content by grouping the effects of earthquakes as direct effects and indirect effects • Add in a flow chart to make the presentation clearer
	<p>pp. 66–7</p> 	<p>Rewrite the content about the structure of the earth to explain the concepts of plates, the lithosphere and the asthenosphere more clearly and accurately</p>
6	<p>pp. 75–6</p> <p>6.1 How and why do the effects of natural hazards vary among countries with different levels of economic development?</p>	<p>Rewrite the content to explain how and why the effects of natural hazards vary among countries by focusing on aspects related to the level of economic development</p>
	<p>p. 77</p> <p>How do the effects of earthquakes differ in New Zealand and Haiti?</p>	<p>Add in a comparison between earthquakes of a similar magnitude in an MDC and an LDC to illustrate the difference in the level of destruction</p>
	<p>p. 80</p> <p>D Trust in preventive measures</p>	<p>Add in 'Trust in preventive measures' as one of the reasons explaining why people still choose to live in areas affected by natural hazards. This makes the explanation more complete</p>


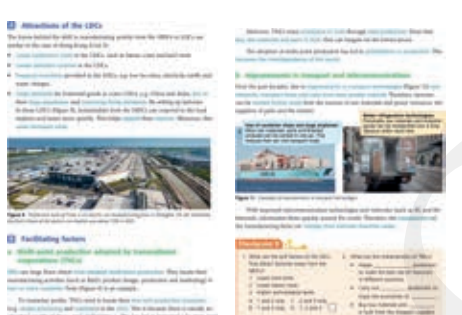
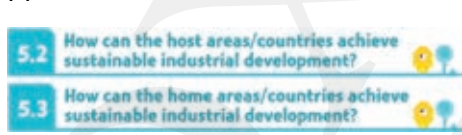
Unit	Major skill							
1	p. 7	<p>GIS</p> <p>How can we use GIS to show the global distribution of natural hazards?</p>						
2	pp. 11–13	<p>Draw a cross section from a contour map</p> <p>Skills box</p> <p>How do we draw a cross section from a contour map?</p>						
	p. 14	<p>Calculate the vertical exaggeration (V.E.) of a cross section</p> <p>Skills box</p> <p>How do we calculate the vertical exaggeration (V.E.) of a cross section?</p>						
		<p>Find the vertical scale and horizontal scale for calculating vertical exaggeration</p>  <p>For example, the V.E. of the cross section in Figure 7 is:</p> $= \frac{1:10,000}{1:20,000}$ <p>← This is the map scale of Figure 5 on p. 11.</p> $= \frac{1}{10,000} \times \frac{20,000}{1}$ $= 2$ <p>← The value of 2 means the V.E. of the cross section is 2 times.</p>						
	p. 18	<p>Calculate slope gradient from a contour map</p> <p>Skills box</p> <p>How do we calculate slope gradient from a contour map?</p>						
3	p. 28	<p>Identify effects of landslide from photographs</p>  <p>Po Shan Road landslide in Mid-levels Date: 18 June 1972 Injuries: 20 Deaths: 67</p> <p>Fei Tsui Road landslide in Chal Wan Date: 13 August 1995 Injuries: 6 Deaths: 1</p> <p>How did the landslides affect 1 the people inside the destroyed buildings? 2 the traffic?</p> <p>Figure 2 Examples of landslides in Hong Kong</p>						
	p. 41	<p>Explain factors with evidence</p> <table border="1" data-bbox="432 1821 1406 2049"> <thead> <tr> <th>Natural factor</th> <th>Explanation and evidence</th> <th>Effect on shear stress and shear strength</th> </tr> </thead> <tbody> <tr> <td>(Hilly / Flat) relief</td> <td>Xinmo Village was found at the bottom of a (gentle / steep) slope. The slope angle where the landslide started was about _____°. The average slope gradient reached 40°</td> <td>Shear stress (↑ / ↓)</td> </tr> </tbody> </table>	Natural factor	Explanation and evidence	Effect on shear stress and shear strength	(Hilly / Flat) relief	Xinmo Village was found at the bottom of a (gentle / steep) slope. The slope angle where the landslide started was about _____°. The average slope gradient reached 40°	Shear stress (↑ / ↓)
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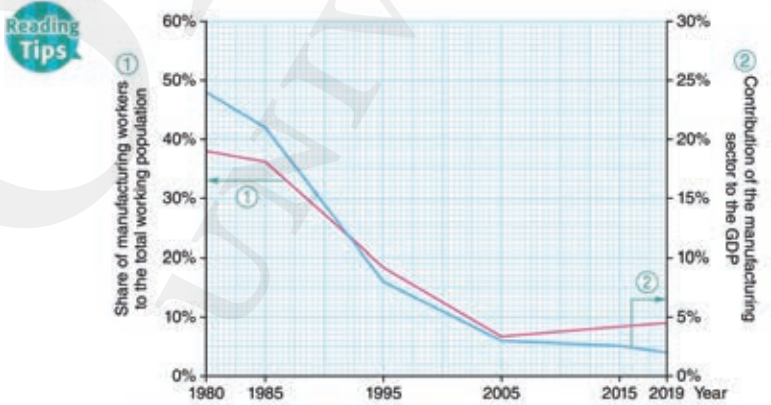
Unit	Major skill	
4	p. 49	<p>Draw a climatic graph</p> <p>Skills box</p> <p>How do we draw a climatic graph?</p>
	p. 50	<p>Read a climatic graph</p> <p>Temperature (°C) Rainfall (mm)</p> <p>Mean summer temperature reaches _____ °C</p> <p>Mean winter temperature is about 17°C</p> <p>Summer rainfall reaches _____ mm</p> <p>Winter rainfall is only about 100 mm</p> <p>Note: Cool: 13–17°C Mild: 18–22°C Warm: 23–27°C Hot: 28–32°C</p> <p>Figure 3 Climate graph of Hong Kong</p>
	p. 54	<p>Read a weather chart</p> <p>Skills box</p> <p>How do we read a weather chart?</p>
5	p. 64	<p>Identify how a lake was formed after a landslide from a photograph</p> <p>Reading Tips</p> <p>1 Landslide</p> <p>2 Sand and mud blocked the river and formed a dam</p> <p>3 A lake was formed</p> <p>gettyimages Drew Hutton</p> <p>River</p> <p>A lake formed when sand and mud blocked the river</p>
6	p. 77	<p>Identify a less developed country with data evidence</p> <div style="display: flex; justify-content: space-around;"> <div style="background-color: #fce4ec; padding: 10px; border: 1px solid #ccc;"> <p>New Zealand</p> <ul style="list-style-type: none"> Gross Domestic Product (GDP) per capita (2010): US\$33,700 Literacy rate: 99% </div> <div style="background-color: #e8f5e9; padding: 10px; border: 1px solid #ccc;"> <p>Haiti</p> <ul style="list-style-type: none"> Gross Domestic Product (GDP) per capita (2010): US\$1,172 Literacy rate: 61% </div> </div> <p>Source: The World Bank</p> <p>2 Which country is less developed? Give evidence.</p>

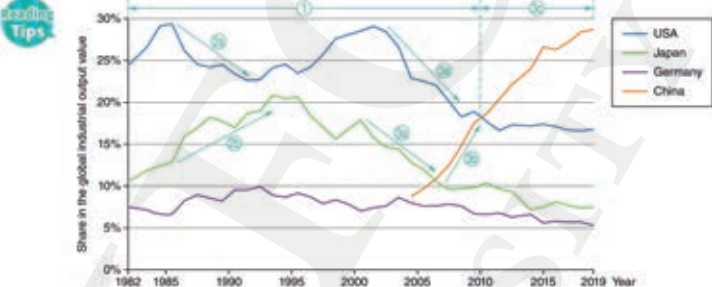


6

Global shift in manufacturing industry

Unit		Major change
1	p. 4 The economic activity of making paper (p. 3) is an example of manufacturing, which turns raw materials or semi-finished products to finished products. Through manufacturing, value is added to the products.	Simplify the content about the value-adding nature of manufacturing and put it under the section 1.1 ‘What is manufacturing?’. This arrangement is easier for students to understand
	pp. 5–7 1.2 What is a manufacturing system? 1.3 What are the different types of manufacturing industries?	Move the classification of manufacturing industries right after the manufacturing system , so that students can relate the classification of industries with the characteristics of inputs and outputs more easily
	pp. 9–10 	<ul style="list-style-type: none"> Elaborate how each location factor affects different types of manufacturing industries in detail Help students revise their knowledge about types of manufacturing industries just learned by including some simple exercises in the table
2	pp. 15–24 A Difficulties faced by the manufacturing industry in Hong Kong As seen above, the manufacturing industry in Hong Kong has been declining since the 1980s. What were the reasons behind? In the 1970s, a manufacturing grew rapidly, both the labour costs and land rents rose sharply (Figure 10). This put a heavy burden on the industrialists.	Elaborate the development of the manufacturing industry in Hong Kong and the affecting factors in detail under three major sections
	p. 23 Let's explore 5... Is the ZDR still a good place for the Hong Kong industrialists? Study the information in Figure 14 and Table 1, and answer the questions below.	Add in an exercise about the real-life case of a Hong Kong manufacturing firm to arouse students' interest in the topic




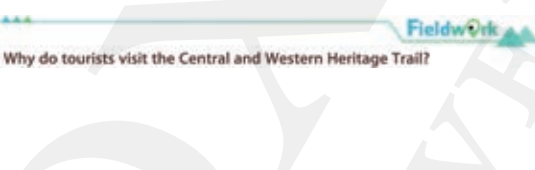

Unit	Major change	
3	pp. 29–31	Elaborate the distribution and location factors of the major industrial regions in the world more clearly with new sub-headings
	<p>p. 32</p> <p>Let's explore 7</p> <p>Where is the product produced? Figures 6a and 6b show a video game console.</p>  <p>Figure 6a A video game console of a famous Japanese manufacturing firm</p>	Replace the example of the activity with a popular product among students to arouse their interest
	<p>pp. 34–7</p> 	Elaborate the factors causing a global shift in manufacturing activity in detail with new sub-headings and examples
4	pp. 43–9	<ul style="list-style-type: none"> • Rearrange the sequence of the content by placing the cycle of economic first, so that students can comprehend the content more easily • Elaborate the impacts of the global shift in manufacturing activity in detail with new sub-headings
5	<p>pp. 53–7</p> 	Swap the content by discussing the measures taken by the host areas first in order to align with the changes made in Unit 4
	<p>p. 57</p> <p>Japan</p> <p>The outbreak of COVID-19 has disturbed the global shipping of raw materials and finished products. Japan has suffered from the shortage of medical supplies.</p> <p>To secure the supply of medical and basic goods, the Japanese government has decided to offer subsidies of US\$2.2 billion to the industrialists who move production back to Japan. Encouraged by this, 57 local manufacturing firms have received the subsidies to open factories in the country.</p>	Add in the latest case of Japan to show how the outbreak of COVID-19 affects the global industrial location

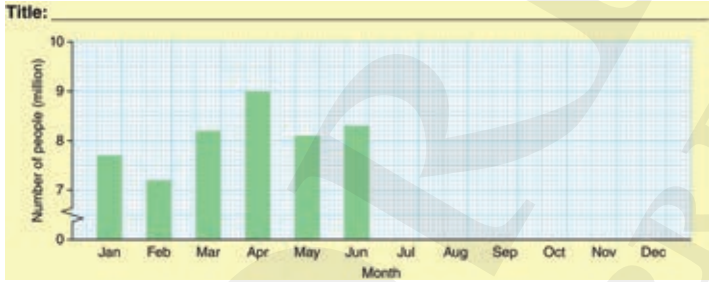
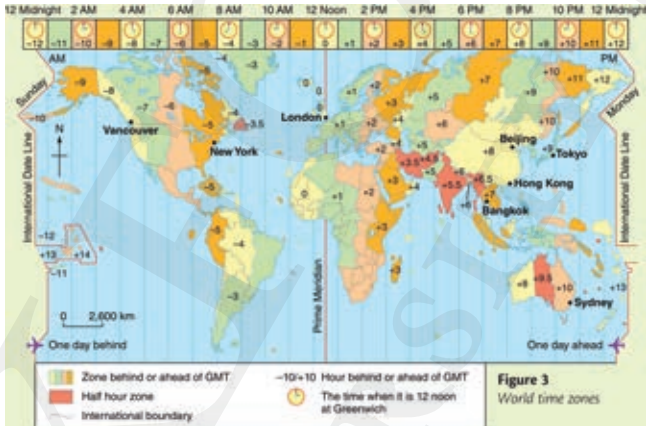

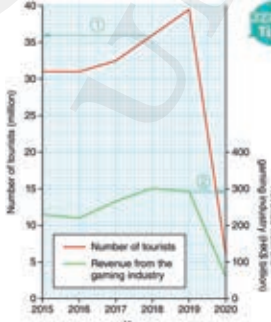
Unit	Major skill	
1	p. 3	<p>Describe a process</p> <ol style="list-style-type: none"> 1 Refer to Figure 1. <ol style="list-style-type: none"> a What is the finished product? b What is the raw material used for making the product? c Where is the product made? d Briefly describe where paper comes from. <p>_____ (finished product) is made in _____ from _____ (raw material). It is then sold in the _____.</p> 2 Name ONE product you have on hand. Then, briefly describe where it comes from. <i>[Hint: You may refer to the sentence pattern of the answer to 1(d).]</i>
2	p. 14 p. 18	<p>Describe importance and change over time with data support</p> <ol style="list-style-type: none"> 2 With reference to your answers above, describe the importance of the manufacturing industry to Hong Kong's economy in 1976. <p style="background-color: #ffffcc; padding: 5px;">The manufacturing industry was (unimportant / important) to Hong Kong's economy. Firstly, the manufacturing industry employed the (smallest / largest) number of people. It accounted for _____% of the workers employed in the city. Secondly, the contribution of the manufacturing industry to the city's GDP was the (smallest / largest) too. It accounted for _____.</p> <p>Serve as a revision</p> <ol style="list-style-type: none"> 2 With reference to your answers above, describe the change in the importance of the manufacturing industry to Hong Kong's economy between 1980 and 2019. <i>(Hint: Refer to Question 2 on p. 14 for how to write the answers.)</i> <p style="background-color: #ffffcc; padding: 5px;">The manufacturing industry has been becoming (less / more) important to Hong Kong's economy between 1980 and 2019. Firstly, (fewer / more) people worked in the manufacturing industry. The share of manufacturing workers to the total working population has (decreased / increased) from _____% in 1980 to _____% in 2019. Secondly, _____.</p>
p. 18		<p>Read a two y-axes line graph</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-top: 10px;"> <p>Reading Tips</p> <p>For a graph with two y-axes, be careful with which y-axis a particular curve refers to.</p> <p>① For 'Share of manufacturing workers to the total working population', refer to the values of the y-axis on the left.</p> <p>② For 'Contribution of the manufacturing sector to the GDP', refer to the values of the y-axis on the right.</p> </div> <p>Source: Census and Statistics Department, HKSAR</p> <p>Figure 9 The share of manufacturing workers to the total working population, and the changes in the contribution of the manufacturing sector to the GDP of Hong Kong between 1980 to 2019</p>

Unit	Major skill							
2	p. 19	<p>Calculate percentage increase</p> <p>1 Calculate the percentage increase of the average daily wage of manufacturing workers in Hong Kong between 1973 and 1980. (Hint: The percentage increase can be calculated by the formula below.)</p> $\frac{\text{Value of 1980} - \text{Value of 1973}}{\text{Value of 1973}} \times 100\%$						
	p. 22	<p>GIS How can we compare the changes in land use in different periods of time using GIS?</p>						
	p. 23	<p>Explain answers with data support</p> <p>1 Why do you think the Hong Kong headwear manufacturing firm has moved its production from Shenzhen to Gazipur in the 2010s? Explain your answer with data support.</p>						
3	p. 31	<p>Draw conclusion with evidence support</p> <p>Table 1 Favourable factors of industrial development in the Great Lakes Region</p> <table border="1" data-bbox="395 734 1294 936"> <thead> <tr> <th>Conclusion (favourable location factor)</th> <th>Evidence (features on the map)</th> <th>Explanation (why this is important to the manufacturing industry)</th> </tr> </thead> <tbody> <tr> <td>Presence of raw materials</td> <td>_____ deposits near Lake Superior and Lake Huron</td> <td>_____ is an important raw material for many heavy industries, e.g. the iron and steel and the car-making industries</td> </tr> </tbody> </table>	Conclusion (favourable location factor)	Evidence (features on the map)	Explanation (why this is important to the manufacturing industry)	Presence of raw materials	_____ deposits near Lake Superior and Lake Huron	_____ is an important raw material for many heavy industries, e.g. the iron and steel and the car-making industries
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Presence of raw materials	_____ deposits near Lake Superior and Lake Huron	_____ is an important raw material for many heavy industries, e.g. the iron and steel and the car-making industries						
	p. 33	<p>Read a multiple line graph</p>  <p>① In terms of industrial output, the USA used to be the most important manufacturer in the world.</p> <p>Between the mid-1980s and mid-1990s: ② The importance of the USA decreased. Some manufacturing activities shifted from the USA to Japan. ③ Japan was on a rapid rise.</p>						
4	p. 43	<p>Describe changes with data support</p> <p>Study Figure 1. With data and photo evidence support, describe the changes in Shenzhen between 1980 and 2019 according to the five aspects shown.</p> 						
	p. 46	<p>Draw a line graph</p>						
	p. 47	<p>Read a bar graph with both positive and negative values</p>  <p>An upward-pointing bar shows a positive value, e.g. the population change in Chicago is +15%.</p> <p>A downward-pointing bar shows a negative value, e.g. the population change in Cleveland is -28%.</p>						

7 Tourism

Unit	Major change	
Whole book	e.g. pp. 7–8, 18–19, 31, 40–1 	Rewrite and simplify the text with more images and interesting drawings to arouse students’ learning interest and help them understand the content more easily
1	pp. 4–5 	Group the content about the characteristics of Hong Kong people going on holiday outside Hong Kong (number of people and time) in the same section to improve the flow
	p. 10 In addition, the Guangzhou–Shenzhen–Hong Kong High Speed Rail and the Hong Kong–Zhuhai–Macao Bridge have provided direct and shorter transport links to the Mainland. This increases the number of short- and medium-distance trips to the Mainland. 	Update the factors that make travel possible by adding in the Guangzhou–Shenzhen–Hong Kong High Speed Rail and the Hong Kong–Zhuhai–Macao Bridge
2	pp. 12 and 16 	Revise and simplify the activities to better compare the benefits and problems brought by tourism to the same place (i.e. Thailand)
	p. 13 	Expand and present the cycle of economic growth in the form of a flow chart to explain more clearly the economic benefits brought by tourism and enhance students’ learning and understanding
	p. 15 	Provide interesting information about how tourism can provide resources for creating 3-D models for heritage preservation




Unit	Major change	
2	<p>p. 17</p> <p>For example, due to the global outbreak of COVID-19 in 2020, both the number of tourists and revenue from the gaming industry in Macau decreased greatly (Figure 10). Many hotel rooms were vacant and travel agencies did not have businesses. As mentioned on p. 13, Macau relies heavily on tourism, the economy was thus badly affected.</p>	<p>Provide a more recent example (global outbreak of COVID-19) in illustrating the problem of over-reliance on tourism</p>
3	<p>pp. 27–31</p>  <p>Figure 1</p> <p>a A duck b A ghost hand c A strange rock</p>	<p>Swap the sequence by introducing the natural attractions in Hong Kong first (with an interesting warm-up activity), then the cultural attractions as students may find natural attractions more interesting</p>
	<p>p. 30</p> <p>More about the world-class geoparks in China</p> <p>China has rich geological resources. Refer to Figure 4. It has the largest number of UNESCO Global Geopark (41 in total) in the world.</p> 	<p>Introduce other geoparks in China to enrich the content and encourage students to explore these parks by themselves</p>
	<p>p. 33</p> <p>In recent years, there are some new cultural sites with local colours such as Choi Hung Estate (Figure 11) and Tai Nan Street with many special cafés in Sham Shui Po. Tourists can learn about the local culture and lifestyle there.</p>  <p>Figure 11 The colourful design of Choi Hung Estate has become a famous attraction for photography</p>	<p>Introduce some more recent and popular cultural attractions in Hong Kong to arouse students' learning interest as they may be familiar with them</p>
	<p>pp. 38–9</p> 	<ul style="list-style-type: none"> • Change the fieldwork site from Sai Kung town to Central District to make the study to be carried out more easily • Explain more clearly on how to carry out a questionnaire survey
4	<p>pp. 43–7, 53–5</p> <p>4 Can we develop tourism in a sustainable way?</p> <p>p. 53</p> <p>Let's explore 10</p> <p>Bingo! Let's be a responsible tourist!</p> <p>1 Use the bingo card shown in Figure 13.</p> <p>2 Complete Table 4 to show 12 actions that help achieve sustainable tourism.</p> <p>3 Choose EIGHT actions and write down their codes (e.g. A1) in the boxes of Figure 13 randomly.</p> 	<p>Group all the content related to sustainable tourism in the same unit to make the discussion more focused</p> <p>Use an interactive class activity (Bingo game) to arouse students' interest in the topic of sustainable tourism</p>

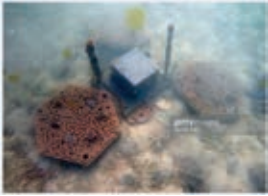



Unit	Major skill										
1	p. 4	<p>Draw a line graph</p> <p>1 Complete the line graph in Figure 2 by using the data in Table 1.</p> <p>Calculate percentage change and describe a trend</p> <p>2 Refer to the line graph you drew.</p> <p>a Calculate the percentage change in the number of Hong Kong people travelling outside Hong Kong between 1990 and 2019. Show your calculations.</p> <p>b Describe the change above.</p> <p>It increased (greatly / slightly) by _____ % between 1990 and 2019.</p>									
	p. 5	<p>Draw a bar graph</p> <p>Title:</p> 									
	p. 6	<p>Find the time of a place from a time zone map</p>  <p>Figure 3 World time zones</p>									
2	p. 16	<p>Extract useful information from photographs</p>  <p>1 Compare the following before and after the closure of Maya Bay.</p> <table border="1" data-bbox="1018 1585 1469 1659"> <thead> <tr> <th></th> <th>Before</th> <th>After</th> </tr> </thead> <tbody> <tr> <td>Number of tourists</td> <td></td> <td></td> </tr> <tr> <td>Number of speedboats</td> <td></td> <td></td> </tr> </tbody> </table>		Before	After	Number of tourists			Number of speedboats		
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	p. 17	<p>Read a two y-axes line graph</p>  <p>Figure 10 The number of tourists and revenue from the gaming industry in Macau, 2015–2020</p>									

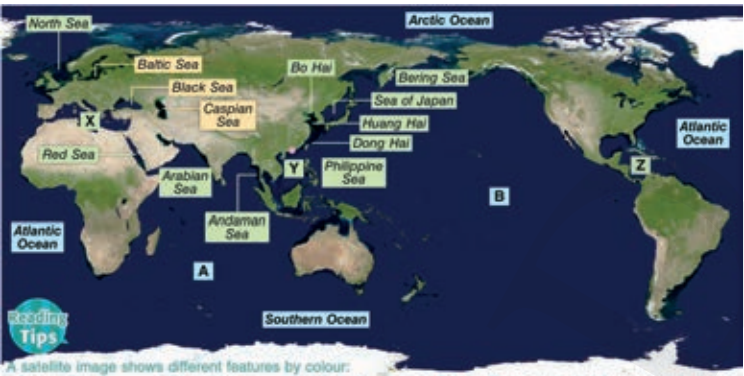
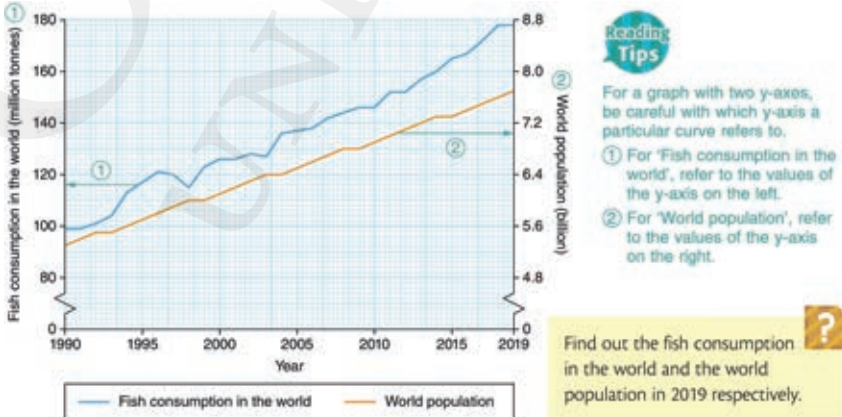
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3	pp. 34–5	<p>Measure the actual length of a road on maps</p> <p>1 Measure the actual length of the Ping Shan Heritage Trail from A to F. Show your calculations.</p> <hr/> <p>Find out four-figure and six-figure grid references</p> <p>2 Find out the four-figure and six-figure grid references of the following.</p> <table border="1" data-bbox="507 439 1442 584"> <thead> <tr> <th></th> <th>Four-figure grid reference</th> <th>Six-figure grid reference</th> </tr> </thead> <tbody> <tr> <td>a Pagoda ('A' on the map)</td> <td></td> <td></td> </tr> <tr> <td>b Visitor centre ('F' on the map)</td> <td></td> <td></td> </tr> </tbody> </table>		Four-figure grid reference	Six-figure grid reference	a Pagoda ('A' on the map)			b Visitor centre ('F' on the map)																																										
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	pp. 36–7	<p>GIS</p> <p>A How can we add files to Google My Maps?</p> <p>B How can we measure distance by Google My Maps?</p> <p>C How can we measure area by Google My Maps?</p>																																																	
	pp. 38–9	<p>Carry out and analyse a questionnaire survey</p> <div data-bbox="432 835 1123 1529" style="border: 1px solid black; padding: 10px; background-color: #fff9c4;"> <p style="text-align: center;">Questionnaire about the Central and Western Heritage Trail</p> <p>Tourist: No. _____ Date: _____</p> <p>1 Where are you from? _____</p> <p>2 How did you discover the Central and Western Heritage Trail? (can tick '✓' more than one box)</p> <p><input type="checkbox"/> Relatives or friends <input type="checkbox"/> Internet <input type="checkbox"/> Others: _____</p> <p><input type="checkbox"/> Visitor centre <input type="checkbox"/> TV programmes</p> <p>3 Why do you visit the trail? (can tick '✓' more than one box)</p> <table border="1" data-bbox="480 1055 1102 1234"> <thead> <tr> <th>Reason</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>R1 Learn about the history and culture of the place</td> <td></td> </tr> <tr> <td>R2 Study the building design</td> <td></td> </tr> <tr> <td>R3 Enjoy food</td> <td></td> </tr> <tr> <td>R4 Do shopping</td> <td></td> </tr> <tr> <td>R5 Others: _____</td> <td></td> </tr> </tbody> </table> <p>4 How would you rate the following items along the trail?</p> <table border="1" data-bbox="480 1272 1102 1429"> <thead> <tr> <th>Item</th> <th>Bad ←</th> <th>→ Good</th> <th>No opinion</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>T1 Attractiveness of the heritage</td> <td>1 2 3 4 5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>T2 Information boards</td> <td>1 2 3 4 5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>T3 Transport</td> <td>1 2 3 4 5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>T4 Facilities (e.g. toilets)</td> <td>1 2 3 4 5</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>5 What can be done to make your trip along this trail better?</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">End of questionnaire. Thank you!</p> </div> <p>During the trip</p> <p>a When should we carry out the survey?</p> <p>We should carry out the survey at daytime and on weekends or holidays. This is because there are more tourists visiting the trail during this period.</p> <p>After the trip</p> <p>a How can we handle the data?</p> <p>Prepare a table to summarise the data collected (below is an example).</p> <table border="1" data-bbox="432 1783 1123 2045"> <thead> <tr> <th colspan="2">Total number of tourists: _____</th> </tr> <tr> <th colspan="2">Number of tourists</th> </tr> </thead> <tbody> <tr> <td>Question 1</td> <td>North America: _____ Central and South America: _____ Europe: _____ Africa: _____ Asia: _____ Oceania: _____</td> </tr> <tr> <td>Question 2</td> <td>Relatives or friends: _____ Internet: _____ Visitor centre: _____ TV programmes: _____ Others: _____</td> </tr> <tr> <td>Question 3</td> <td>R1: _____ R2: _____ R3: _____ R4: _____ R5: _____</td> </tr> <tr> <td>Question 4 (average score*)</td> <td>T1: _____ T2: _____ T3: _____ T4: _____</td> </tr> </tbody> </table>	Reason	Remark	R1 Learn about the history and culture of the place		R2 Study the building design		R3 Enjoy food		R4 Do shopping		R5 Others: _____		Item	Bad ←	→ Good	No opinion	Remark	T1 Attractiveness of the heritage	1 2 3 4 5				T2 Information boards	1 2 3 4 5				T3 Transport	1 2 3 4 5				T4 Facilities (e.g. toilets)	1 2 3 4 5				Total number of tourists: _____		Number of tourists		Question 1	North America: _____ Central and South America: _____ Europe: _____ Africa: _____ Asia: _____ Oceania: _____	Question 2	Relatives or friends: _____ Internet: _____ Visitor centre: _____ TV programmes: _____ Others: _____	Question 3	R1: _____ R2: _____ R3: _____ R4: _____ R5: _____	Question 4 (average score*)	T1: _____ T2: _____ T3: _____ T4: _____
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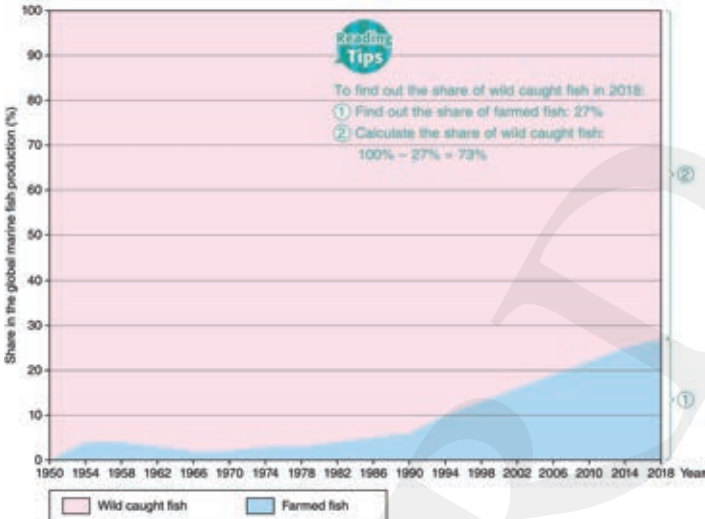

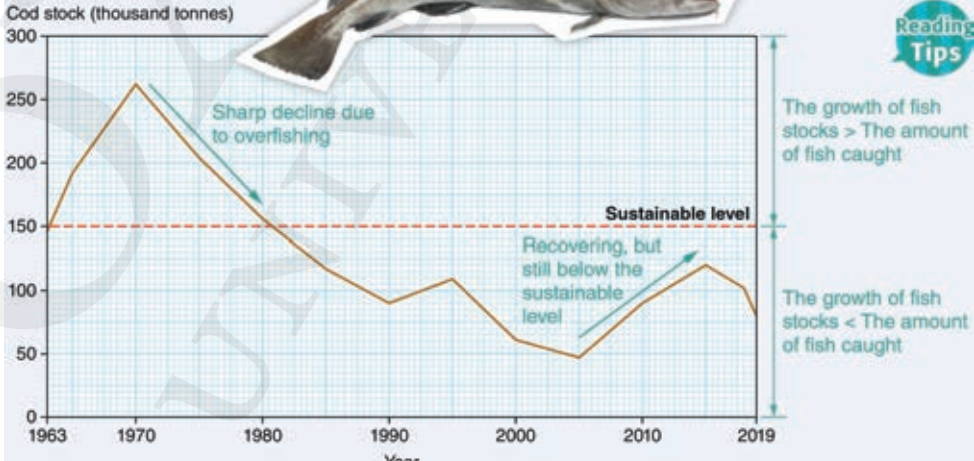
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Oceans in trouble

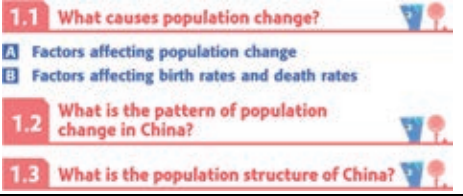
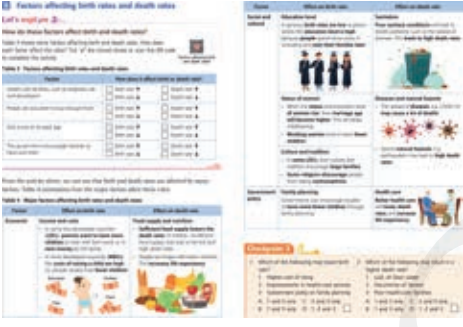




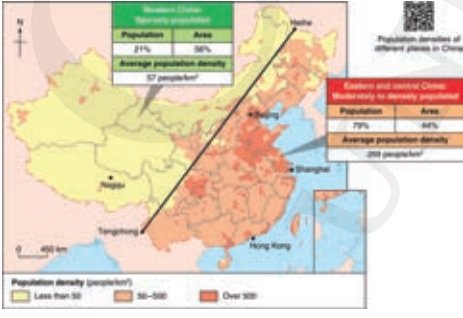
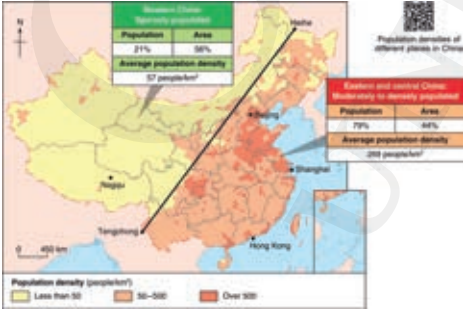
Unit	Major change	
<p>1</p> <p>p. 4</p> <p>Major seas in China</p> <p>There are four major seas in China. They include the <i>Bo Hai</i> and the <i>Huang Hai</i> in the north-east, the <i>Dong Hai</i> in the east and the <i>Nan Hai</i> in the south (Figure 2).</p> 	<p>Add in the sub-heading ‘Major seas in China’ in order to highlight the major seas, as well as the land territories and territorial waters of China according to the <i>Geography Curriculum Framework of National Security Education</i></p>	
<p>pp. 5–11</p> 	<p>Move the content about the human use of oceans to the first unit under 1.2 ‘What benefits do oceans provide to people?’ in order to provide students with an overview of the global distribution of marine resources</p>	
<p>p. 8</p>  <p>p. 10</p> <p>In China, the Nan Hai contains different kinds of useful minerals and metals. Figure 10 on p. 8 shows some examples.</p>	<p>Add in content about the major energy, mineral and metallic resources in the Nan Hai. This highlights the rich marine resources there according to the <i>Geography Curriculum Framework of National Security Education</i></p>	
<p>2</p> <p>pp. 15–18</p> <p>A Components of a marine ecosystem</p> <p>B Interaction of the biotic and abiotic components in a marine ecosystem</p>	<p>Rearrange the content about a marine ecosystem under the sub-heading 2.1 ‘What is a marine ecosystem?’. In this way, students can learn about the marine ecosystem before investigating into the problem of overfishing, as overfishing is a direct cause of the imbalance of the ecosystem</p>	
<p>pp. 20–33</p> <p>2.2 What is overfishing?</p> <p>2.3 How can we solve the problem of overfishing?</p>	<p>Move the content about overfishing and the problems caused right after the marine ecosystem in order to align with the change mentioned in the row above</p>	

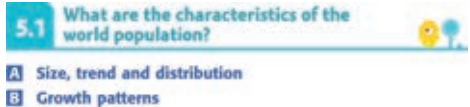
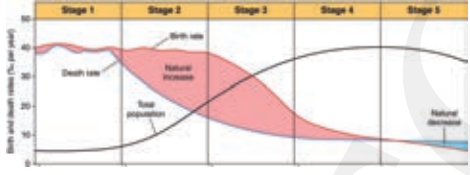

Unit	Major change
<p>2</p> <p>p. 25</p> <p>Worse still, the neighbouring countries claim part of the Nan Hai as their national waters. The rich fish resources in the Nan Hai have attracted many fishermen from the neighbouring countries to catch fish there. This poses challenges for China to conserve the fish stocks in the Nan Hai.</p> <p>p. 30</p> <ul style="list-style-type: none"> Educate the public to conserve marine resources. Lay 3-D printed man-made 'reef tiles' in the sea to restore the marine habitats (Figure 23).  <p>Figure 23 3-D printed man-made reef tiles in the Hai Ma Wan Marine Park served as both for corals</p>	<p>Describe the challenges that China encounters when conserving the fishery resources in the Nan Hai according to the <i>Geography Curriculum Framework of National Security Education</i></p> <p>Add in laying 3-D printed man-made 'reef tiles' in the sea as a measure to ease the problem of overfishing in Hong Kong. This is a measure adopted in recent years</p>
<p>3</p> <p>p. 37 (Unit 3), 51 (Unit 4)</p> <p>Let's explore 6</p> <p>Where is the world's largest garbage dump? How large is it?</p> <p>Let's explore 8</p> <p>Who is responsible for cleaning up the Great Pacific Garbage Patch (GPGP)?</p>	<p>Introduce GPGP (Great Pacific Garbage Patch) in Let's explore 6 (Unit 3), and Let's explore 8 (Unit 4) to arouse student's interest about the seriousness of marine pollution and the fact that it is difficult to clean them up</p>
<p>pp. 37–42</p> <p>3.1 What are the sources of marine pollution? How does it affect the environment?</p>	<p>Present a particular source of marine pollution and its environmental impact in the same section in order to facilitate learning</p>
<p>p. 40</p> <p>More about the lack of oxygen in water</p>	<p>Add in the information about the 'dead zones' in More about to enrich the content</p>
<p>p. 47</p> <p>f Reduce the production of plastic waste</p> <p>Plastic waste is harmful to marine ecosystems. Many governments around the world have taken actions to reduce the production of plastic waste. Hong Kong is no exception (Figure 15).</p>  <p>Plan to ban the sale and provision of single-use plastic tableware in eateries</p>	<p>Add in the measures tackling plastic pollution in Hong Kong in order to make the discussion more complete</p>
<p>p. 48</p> <p>More about the actions taken in different countries to prevent marine pollution</p> <p>Many countries have taken measures to prevent marine pollution. Figure 17 shows some examples.</p>  <p>Germany People need to pay a 0.25-Euro deposit on every bottle of soft drink. The deposit will be returned once they recycle the bottles. This encourages people to recycle the plastic waste.</p> <p>Australia People are encouraged to use reusable water bottles.</p>	<p>Introduce the measures taken by other countries in preventing marine pollution in order to enrich the content</p>
<p>4</p> <p>pp. 53–4</p> <p>More about the international cooperation to tackle the ocean problems in the North Sea</p> <p>The North Sea is rich in marine resources, such as fish, minerals and oil (Figure 4). There are also some busy seaports. Due to the busy fishery, oil drilling and sea transport activities, the North Sea has been badly affected by overfishing and marine pollution for many decades.</p> 	<p>Rewrite the case study of the North Sea to show how international cooperation is essential to solve the ocean problems</p>

Unit	Major skill							
1	p. 3	<p>Read a satellite image</p>  <p>A satellite image shows different features by colour: • Green: Plants • Blue: Water • White: Ice • Brown: Bare or very lightly vegetated ground • Hong Kong • Ocean • Sea • Inland sea</p>						
	p. 5	<p>Explain the importance of something</p> <p>2 Refer to the question above. Do you think oceans are important to us?</p> <table border="1" data-bbox="422 779 1145 1025"> <tr> <td>Topic sentence</td> <td>Oceans are (not important / important) to us.</td> </tr> <tr> <td>Explanation 1 (with examples)</td> <td> <ul style="list-style-type: none"> This is because oceans provide different kinds of resources. These resources are important in our daily life. For example, we can get _____ and energy resources from seas and oceans. Also, we can enjoy _____ activities in the sea. </td> </tr> <tr> <td>Explanation 2 (with example)</td> <td> <ul style="list-style-type: none"> Besides, oceans provide convenience for economic activities. For example, we can _____ goods across the oceans. </td> </tr> </table>	Topic sentence	Oceans are (not important / important) to us.	Explanation 1 (with examples)	<ul style="list-style-type: none"> This is because oceans provide different kinds of resources. These resources are important in our daily life. For example, we can get _____ and energy resources from seas and oceans. Also, we can enjoy _____ activities in the sea. 	Explanation 2 (with example)	<ul style="list-style-type: none"> Besides, oceans provide convenience for economic activities. For example, we can _____ goods across the oceans.
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Explanation 2 (with example)	<ul style="list-style-type: none"> Besides, oceans provide convenience for economic activities. For example, we can _____ goods across the oceans. 							
	p. 7	<p>Describe the spatial distribution of a feature</p> <p>Describe the distribution of the fishing grounds in the Nan Hai near Hong Kong. The fishing grounds are found in the (shallow / deep) sea (near / far away from) the coast.</p>						
2	p. 20	<p>Describe the trend of something</p> <p>1 Describe the trend in the amount of the seafood fished between 1950 and 1986.</p> <table border="1" data-bbox="422 1258 1141 1489"> <tr> <td>Step 1: Describe the overall trend, as well as the values of the start and end years</td> <td>The amount was _____ million tonnes in 1950. It (dropped / rose) to _____ million tonnes in 1986.</td> </tr> <tr> <td>Step 2: Calculate the percentage change (i.e. $\frac{\text{Value of the start year} - \text{Value of the end year}}{\text{Value of the start year}} \times 100\%$)</td> <td>It (decreased / increased) by _____ %.</td> </tr> <tr> <td>Step 3: Describe the rate of change</td> <td>The (decrease / increase) was (slow / rapid) during the period.</td> </tr> </table> <p>2 Describe the trend of seafood fished between 1986 and 2018. (Hint: Refer to the sentence pattern in Question 1.)</p>	Step 1: Describe the overall trend, as well as the values of the start and end years	The amount was _____ million tonnes in 1950. It (dropped / rose) to _____ million tonnes in 1986.	Step 2: Calculate the percentage change (i.e. $\frac{\text{Value of the start year} - \text{Value of the end year}}{\text{Value of the start year}} \times 100\%$)	It (decreased / increased) by _____ %.	Step 3: Describe the rate of change	The (decrease / increase) was (slow / rapid) during the period.
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Step 3: Describe the rate of change	The (decrease / increase) was (slow / rapid) during the period.							
	p. 22	<p>Read a two y-axes line graph</p>  <p>Reading Tips For a graph with two y-axes, be careful with which y-axis a particular curve refers to. ① For "Fish consumption in the world", refer to the values of the y-axis on the left. ② For "World population", refer to the values of the y-axis on the right.</p> <p>Find out the fish consumption in the world and the world population in 2019 respectively.</p>						

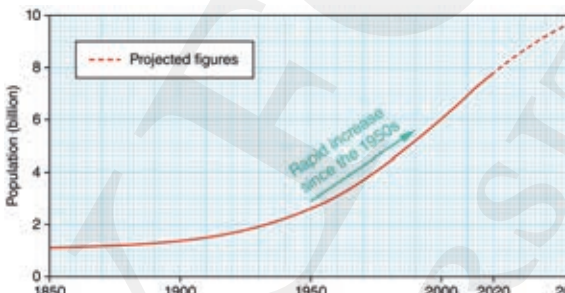
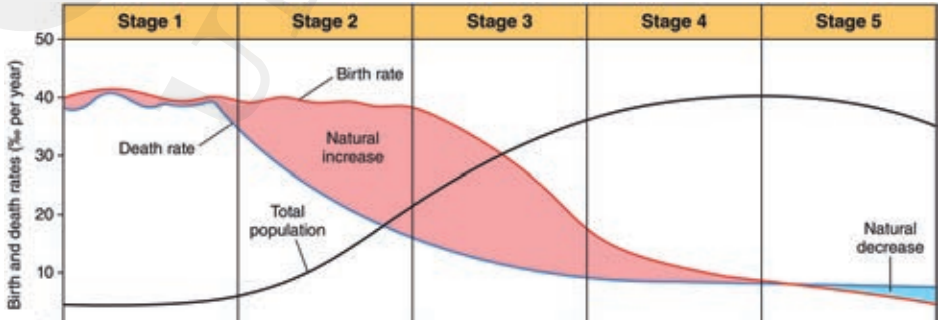
Unit	Major skill	
2	p. 28	<p>Read a stacked area chart</p>  <p>Share in the global marine fish production (%)</p> <p>Year</p> <p>Legend: Wild caught fish, Farmed fish</p>
	p. 32	<p>Draw a diagram</p> <p>c. Based on the food chain in 3(a), draw a nutrient cycle in the marine ecosystem in the space below.</p> 
3	p. 41	<p>Describe the spatial relationship between two features</p> <p>2 What is the relationship between the main shipping routes and the areas affected by prolonged oil slicks?</p>
4	p. 54	<p>Describe a trend from a line graph</p>  <p>Cod stock (thousand tonnes)</p> <p>Year</p> <p>Annotations: Sharp decline due to overfishing, Sustainable level, Recovering, but still below the sustainable level, The growth of fish stocks > The amount of fish caught, The growth of fish stocks < The amount of fish caught</p>

9 Population problems


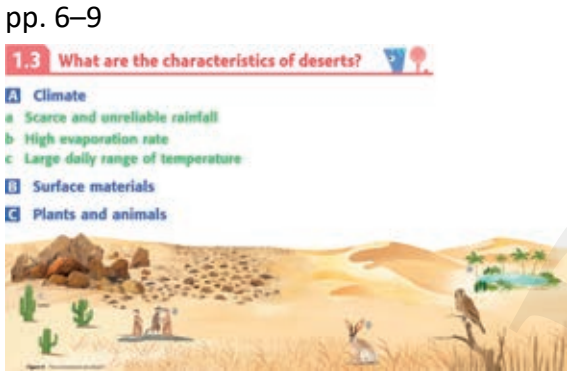


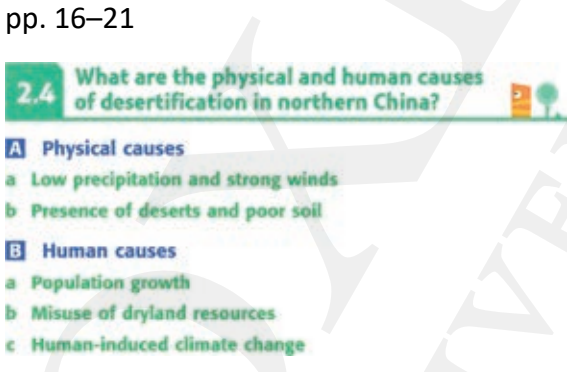
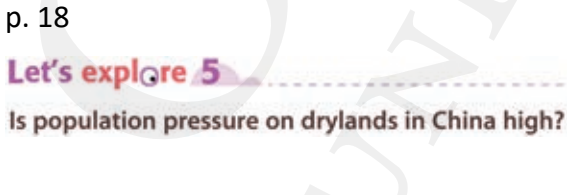

Unit	Major change																												
<p>1</p> <p>pp. 3–11</p> <p>1.1 What causes population change?</p> <p>A Factors affecting population change</p> <p>B Factors affecting birth rates and death rates</p> <p>1.2 What is the pattern of population change in China?</p> <p>1.3 What is the population structure of China?</p>		<p>Restructure the content about the factors affecting population change under the first section with new sub-headings, and group the content about the population of China in the second and third sections.</p> <p>This improves the flow and facilitates learning</p>																											
<p>pp. 6–7</p> <p>Factors affecting birth rates and death rates</p> <p>Let's explore 2...</p> <p>How do these factors affect birth and death rates? List 4 factors each affecting birth and death rates. How can you have a higher birth rate than the death rate or vice versa? Explain the effect.</p> <p>Table 1 Factors affecting birth rates and death rates</p> <table border="1" data-bbox="260 719 478 824"> <thead> <tr> <th>Factor</th> <th>Effect on birth rate</th> <th>Effect on death rate</th> </tr> </thead> <tbody> <tr> <td>Population density</td> <td>Increases</td> <td>Increases</td> </tr> <tr> <td>Health care</td> <td>Increases</td> <td>Decreases</td> </tr> <tr> <td>Education</td> <td>Decreases</td> <td>Decreases</td> </tr> <tr> <td>Food supply</td> <td>Increases</td> <td>Decreases</td> </tr> <tr> <td>Water supply</td> <td>Increases</td> <td>Decreases</td> </tr> <tr> <td>Climate</td> <td>Increases</td> <td>Increases</td> </tr> <tr> <td>War</td> <td>Decreases</td> <td>Increases</td> </tr> <tr> <td>Disaster</td> <td>Decreases</td> <td>Increases</td> </tr> </tbody> </table> <p>Table 2 How factors affect birth rates and death rates</p> <p>Table 3 How factors affect birth rates and death rates</p> <p>Check your understanding</p> <p>1. How do you think the birth rate and death rate will change in the future? Give reasons.</p> <p>2. How do you think the population will change in the future? Give reasons.</p>	Factor	Effect on birth rate	Effect on death rate	Population density	Increases	Increases	Health care	Increases	Decreases	Education	Decreases	Decreases	Food supply	Increases	Decreases	Water supply	Increases	Decreases	Climate	Increases	Increases	War	Decreases	Increases	Disaster	Decreases	Increases		<p>Add in a section about the factors affecting birth rates and death rates to make the discussion more complete</p>
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War	Decreases	Increases																											
Disaster	Decreases	Increases																											
<p>2</p> <p>pp. 19–20</p> <p>2.1 How many people can a place support?</p> <p>A Meaning of carrying capacity</p> <p>Let's explore 3...</p> <p>How many passengers can a taxi and a bus carry?</p> <p>Figures 1 and 2 show two common public transport modes in Hong Kong.</p>   <p>Figure 1 Taxi Figure 2 Bus</p>		<p>Use a daily example to illustrate the concept of carrying capacity and explain the concept in a clearer way with sub-headings. This makes it easier for students to follow</p>																											
<p>pp. 23–4</p>		<p>Add in actual data to explain the problem of overpopulation in China. This makes the discussion more concrete</p>																											
<p>3</p> <p>p. 32</p>  <p>Population density of different places in China</p> <table border="1" data-bbox="375 1624 502 1691"> <thead> <tr> <th>Region</th> <th>Population</th> <th>Area</th> <th>Average population density</th> </tr> </thead> <tbody> <tr> <td>Western and central China</td> <td>21%</td> <td>56%</td> <td>37 people/km²</td> </tr> <tr> <td>Eastern and central China</td> <td>79%</td> <td>44%</td> <td>282 people/km²</td> </tr> </tbody> </table> <p>Population density (people/km²)</p> <ul style="list-style-type: none"> Less than 50 50–100 Over 100 	Region	Population	Area	Average population density	Western and central China	21%	56%	37 people/km ²	Eastern and central China	79%	44%	282 people/km ²		<p>Add in data about the average population density in Western and Eastern China to better illustrate the population distribution of China</p>															
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Unit	Major change							
4	<p>p. 53</p> <p>a Causes of ageing population</p> <p>① Lower birth rates Due to the rapid economic growth since the late 1970s and higher education level, more people prefer late marriage. Together with the higher costs of raising children, the birth rate of China has decreased a lot (Figure 3 on p. 4).</p> <p>② Longer life expectancy Rapid economic growth has also greatly improved the quality of health-care services. People can live longer and the life expectancy has increased from 44 years old in 1960 to 77 in 2020. This increases the proportion of the elderly.</p>	<p>Add in a section about the causes of ageing population in China to explain the situation more clearly</p>						
	<p>p. 55</p>	<p>Update and add in more latest measures for tackling the ageing population in China with sub-headings. This enriches the content and makes it easier for students to follow</p>						
5	<p>pp. 57–9</p> 	<p>Rearrange the content about the characteristics of the world population more clearly into two sections with sub-headings. This improves the flow and makes it easier for students to follow</p>						
	<p>pp. 60–70</p> 	<p>Swap the sequence by first examining the demographic transition model and interpreting the model in detail. This complete overview provides students with more solid background knowledge before going in deep to discuss the differences and situations in LDCs and MDCs</p>						
	<p>p. 67</p> <p>Let's explore 11</p> <p>Why is the famous mascot in Japan getting married and having kids? Refer to the news clipping below.</p> 	<p>Arouse students' learning interest by making use of a popular character among students to design the activity</p>						
	<p>pp. 68–9</p>	<p>Update and add in more latest measures adopted by MDCs to solve their population problems with new sub-headings</p>						
—	<p>pp. 6–7, 11, 35, 44–5, 68</p> <table border="1" data-bbox="256 1715 727 1917"> <tr> <td>Proportion of adults</td> <td> <ul style="list-style-type: none"> Adults make up the working group. They are the working population. Since they are economically active, a large share of adults means the supply of labour force is adequate. </td> </tr> <tr> <td>Proportion of children and the elderly</td> <td> <ul style="list-style-type: none"> Children and the elderly depend on the working population for support. They are the dependent population/dependents. When the share of the dependent population is very high, many resources will be spent on supporting them. This increases the financial burden of society. </td> </tr> <tr> <td>Sex ratio</td> <td> <ul style="list-style-type: none"> It is the ratio between the male and female population. An imbalanced sex ratio may adversely affect population growth. For example, when the male population is much larger than the female population, it will be difficult for men to find wives and start their families. </td> </tr> </table>	Proportion of adults	<ul style="list-style-type: none"> Adults make up the working group. They are the working population. Since they are economically active, a large share of adults means the supply of labour force is adequate. 	Proportion of children and the elderly	<ul style="list-style-type: none"> Children and the elderly depend on the working population for support. They are the dependent population/dependents. When the share of the dependent population is very high, many resources will be spent on supporting them. This increases the financial burden of society. 	Sex ratio	<ul style="list-style-type: none"> It is the ratio between the male and female population. An imbalanced sex ratio may adversely affect population growth. For example, when the male population is much larger than the female population, it will be difficult for men to find wives and start their families. 	<p>Add in tables or restructure the content in table form for students to follow more easily</p>
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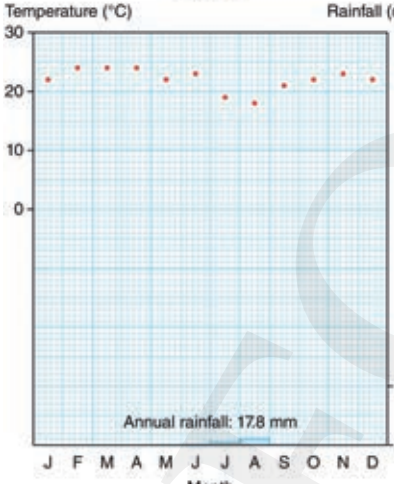
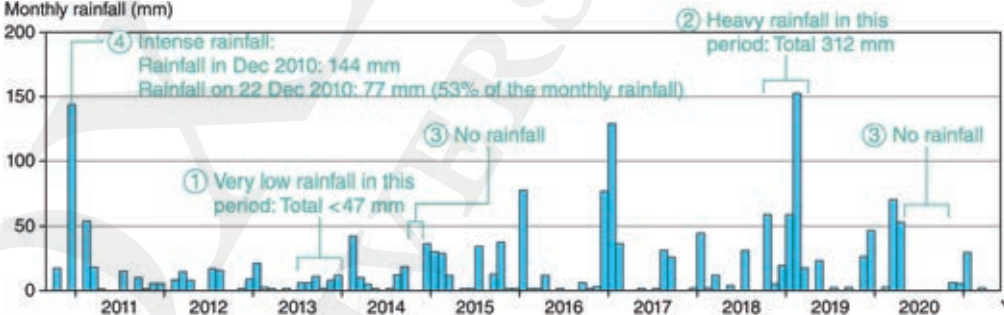
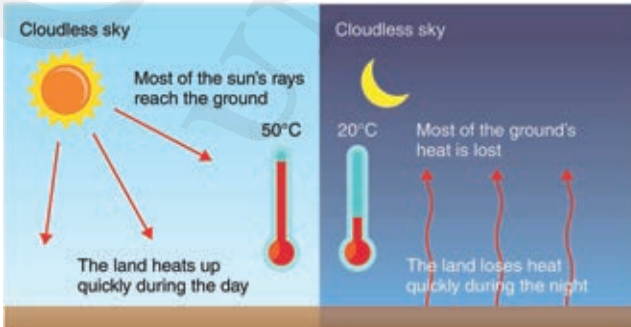
Unit	Major skill																																																							
1	p. 4	<p>Calculate natural increase rate</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #f8d7da;"> <p>Birth rate [i.e. Number of births per 1,000 people (%)]</p> </div> <div style="font-size: 2em;">-</div> <div style="border: 1px solid black; padding: 5px; background-color: #d1ecf1;"> <p>Death rate [i.e. Number of deaths per 1,000 people (%)]</p> </div> <div style="font-size: 2em;">=</div> <div style="border: 1px solid black; padding: 5px; background-color: #fff3cd;"> <p>Natural increase rate</p> </div> </div>																																																						
	p. 8	<p>Identify population periods from a multiple line graph (with birth and death rates)</p>																																																						
pp. 10, 12–15	<p>Read, interpret and draw a population pyramid</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Age group</th> <th>Male (%)</th> <th>Female (%)</th> </tr> </thead> <tbody> <tr> <td>80+</td> <td>1.2</td> <td>1.5</td> </tr> <tr> <td>75-79</td> <td>1.5</td> <td>1.8</td> </tr> <tr> <td>70-74</td> <td>2.0</td> <td>2.5</td> </tr> <tr> <td>65-69</td> <td>2.5</td> <td>3.0</td> </tr> <tr> <td>60-64</td> <td>3.0</td> <td>3.5</td> </tr> <tr> <td>55-59</td> <td>3.5</td> <td>4.0</td> </tr> <tr> <td>50-54</td> <td>4.0</td> <td>4.5</td> </tr> <tr> <td>45-49</td> <td>4.5</td> <td>5.0</td> </tr> <tr> <td>40-44</td> <td>5.0</td> <td>5.5</td> </tr> <tr> <td>35-39</td> <td>5.5</td> <td>6.0</td> </tr> <tr> <td>30-34</td> <td>6.0</td> <td>6.5</td> </tr> <tr> <td>25-29</td> <td>6.5</td> <td>7.0</td> </tr> <tr> <td>20-24</td> <td>7.0</td> <td>7.5</td> </tr> <tr> <td>15-19</td> <td>7.5</td> <td>8.0</td> </tr> <tr> <td>10-14</td> <td>8.0</td> <td>8.5</td> </tr> <tr> <td>5-9</td> <td>8.5</td> <td>9.0</td> </tr> <tr> <td>0-4</td> <td>9.0</td> <td>9.5</td> </tr> </tbody> </table> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <p>Elderly: 5.9%</p> <p>Adults: 36.1%</p> <p>Children: %</p> </div> <div style="width: 45%;"> <p>Elderly: 6.8%</p> <p>Adults: 34.5%</p> <p>Children: %</p> </div> </div> <div style="margin-top: 10px;"> <p>The male population (51.1%) is larger than the female population (48.9%)</p> <p>China has a high percentage of population in the group of 'adults'. This is because of the high birth rates in the 1960s and 1970s (see Figure 3 on p. 8)</p> <p>The lower birth rates in recent decades (Figure 3) have led to a low percentage in the group of 'children'</p> </div>	Age group	Male (%)	Female (%)	80+	1.2	1.5	75-79	1.5	1.8	70-74	2.0	2.5	65-69	2.5	3.0	60-64	3.0	3.5	55-59	3.5	4.0	50-54	4.0	4.5	45-49	4.5	5.0	40-44	5.0	5.5	35-39	5.5	6.0	30-34	6.0	6.5	25-29	6.5	7.0	20-24	7.0	7.5	15-19	7.5	8.0	10-14	8.0	8.5	5-9	8.5	9.0	0-4	9.0	9.5
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p. 11	<p>Calculate dependency ratio</p>	<p>Dependency ratio</p> $= \frac{\% \text{ of children (0-14 years old)} + \% \text{ of the elderly (65 years old or above)}}{\% \text{ of working population (15-64 years old)}} \times 100$																																																						
2	p. 24	<p>Explain answers with data support</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>¹Oil reserve per capita (2018)</td> <td>18 barrels</td> </tr> <tr> <td>²Arable land per capita (2018)</td> <td>0.09 hectare</td> </tr> <tr> <td>³Water resource per capita (2017)</td> <td>1,971 m³</td> </tr> </tbody> </table> <div style="margin-top: 10px; background-color: #fff9c4; padding: 5px;"> <p>Compare the per capita natural resources in China in Table 4 with the world average in Table 1 on p. 20. Explain your answer with data support.</p> </div>	¹ Oil reserve per capita (2018)	18 barrels	² Arable land per capita (2018)	0.09 hectare	³ Water resource per capita (2017)	1,971 m ³																																																
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	p. 26	<p>Read a divided/stacked bar graph</p>																																																						

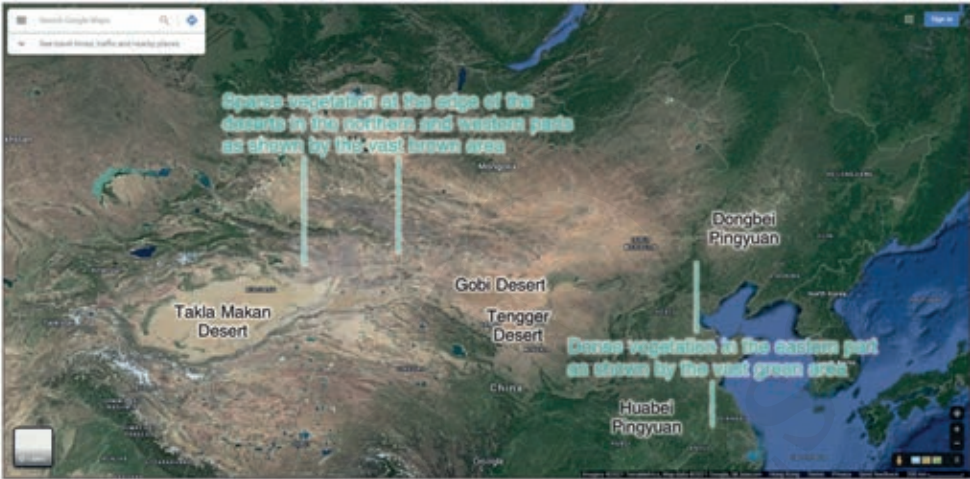
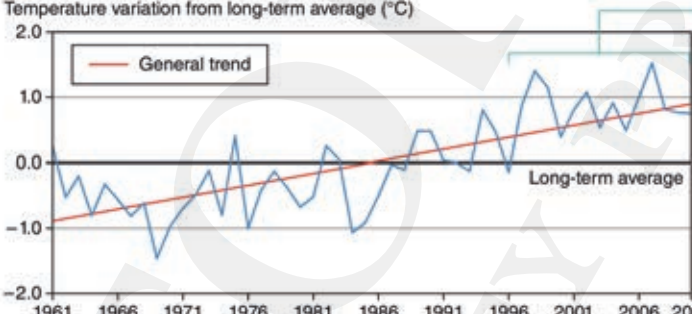
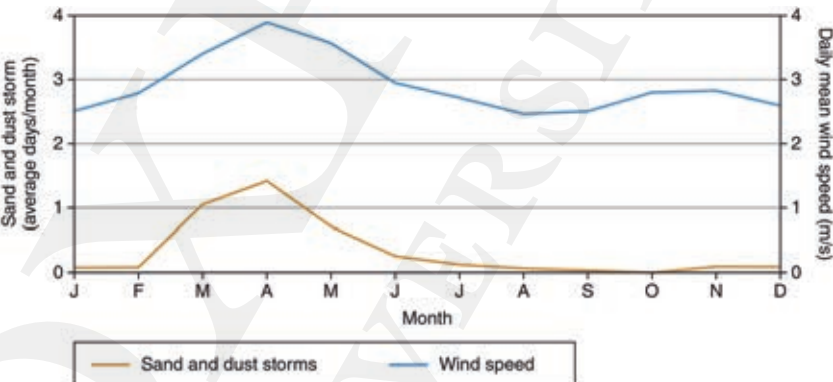
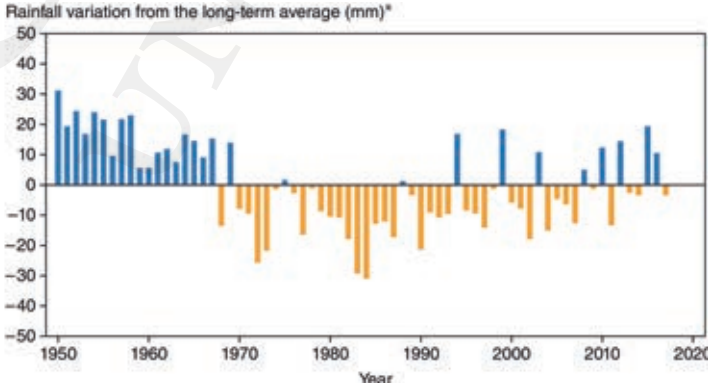
Unit	Skill							
3	p. 31	<p>Describe the population distribution of a place</p> <p>2 Describe how population is distributed in China in general.</p> <ul style="list-style-type: none"> The population is (evenly / unevenly) distributed. Most people live in the _____ and central parts. A few people live in the _____ part. <p>Calculate population density</p> $\text{Population density} = \frac{\text{Total population}}{\text{Area (km}^2\text{)}} = (\text{_____}) \text{ people/km}^2$						
	p. 36	<p>Describe the distribution pattern of a feature with guidance</p> <p>Refer to Figure 7. Describe the distribution pattern of the major cities in China.</p> <ul style="list-style-type: none"> The major cities are mainly found in _____ and _____ China, in particular along and near the _____. In western China, _____. 						
	pp. 38–9	<p>GIS How do we create a choropleth map with QGIS to show the population distribution in China?</p>						
4	p. 52	<p>Describe a trend from a bar graph</p> <p>2 Describe how the percentage share of the elderly in China changes over time. It shows (an increasing / a decreasing) trend. It has _____ by _____% between 1960 and 2020, and is projected to (rise / drop) to over one fourth of the total population in 2050.</p>						
5	p. 57	<p>Describe rate of change in a line graph</p>  <p>Source: Department of Economic and Social Affairs, United Nations; World Population Prospects 2019, United Nations</p> <p>Figure 1 World population, 1850–2050</p>						
	p. 58	<p>Describe a trend from a line graph and distribution pattern/density from a map</p> <table border="1" data-bbox="391 1429 1209 1664"> <tr> <td>Size</td> <td>The population size is huge, reaching _____ in 2020</td> </tr> <tr> <td>Trend</td> <td> <ul style="list-style-type: none"> It is (increasing / decreasing). The change since the _____s has been the most significant It is expected to reach about _____ in 2050 </td> </tr> <tr> <td>Distribution</td> <td> <ul style="list-style-type: none"> It is (evenly / unevenly) distributed In general, Europe, Central Africa, South Asia, East Asia and South-east Asia have a higher population density </td> </tr> </table>	Size	The population size is huge, reaching _____ in 2020	Trend	<ul style="list-style-type: none"> It is (increasing / decreasing). The change since the _____s has been the most significant It is expected to reach about _____ in 2050 	Distribution	<ul style="list-style-type: none"> It is (evenly / unevenly) distributed In general, Europe, Central Africa, South Asia, East Asia and South-east Asia have a higher population density
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Distribution	<ul style="list-style-type: none"> It is (evenly / unevenly) distributed In general, Europe, Central Africa, South Asia, East Asia and South-east Asia have a higher population density 							
	pp. 60–1	<p>Interpret a demographic transition model</p> 						

10 Taming the sand

Unit	Major change	
1	p. 5 	Add in new More about to serve as an extension to cater for learner's diversity
	pp. 6–9 	Rewrite and rearrange the text with concrete data to improve the flow. The attractive layout in this section aims to arouse students' interest
2	pp. 12–24 	Merge, rewrite and restructure the content of units 10.2 and 10.3 in the previous edition as Unit 2. This avoids redundancy and relevant content are grouped in a more logical and coherent way to facilitate learning
	pp. 12–13 	Rewrite the content to explain the concept more clearly
	pp. 16–21 	Modify, expand and restructure the content about the physical and human causes of desertification in northern China. This enriches the content, but at the same time makes it easier for students to follow
	p. 18 	Add in an activity to bring out how population growth on drylands will cause land degradation to enhance students' understanding
	p. 23 	Add in new content about how desertification adversely affects the natural environment, or the Resource and Ecological Security of China according to the <i>Geography Curriculum Framework of National Security Education</i>

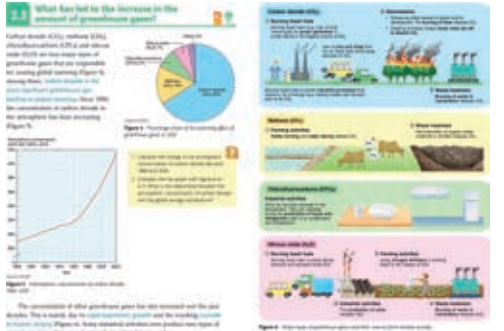



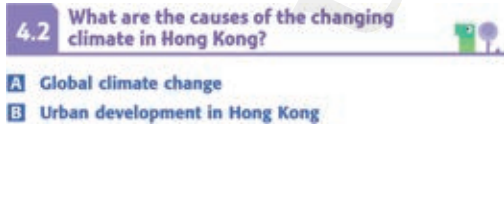
Unit	Major change	
3	<p>pp. 31–2</p> <p>3.3 What are the characteristics and the major causes of the sand and dust storms in China?</p> <p>A Characteristics</p> <p>B Causes</p> <p>a Plentiful sources of sand and dust</p> <p>b Strong winds</p>	<p>Rewrite and rearrange the content as well as add in new sub-headings to help students grasp the main points easily. Concrete data is also added to better illustrate the text</p>
	<p>p. 34</p> <p>D Intensifying desertification</p> <p>Sand and dust storms are strong windstorms. They can increase soil erosion. The land loses soil nutrients and organic matter. This makes the land less productive and the land degrades. Persistent land degradation results in desertification, which provides more sand and dust for sand and dust storms. A vicious circle is created (Figure 8).</p>	<p>Modify the content about how sand and dust storms intensify desertification and put under 3.4 ‘What negative impacts do sand and dust storms bring to northern China?’ as a sub-section. This groups the relevant content in a more logical way to facilitate learning</p>
4	<p>pp. 38–44</p> <p>4.2 What has been done to keep desertification in check?</p> <p>A Increasing vegetation cover in northern China</p>  <p>Figure 2 Functions of a windbreak</p> <p>What sorts of trees are suitable for planting in drylands?</p> <p>B Restoring vegetation cover and preventing further loss</p>	<ul style="list-style-type: none"> • Restructure the content and group the measures into two major aspects in accordance with the causes of desertification mentioned in Unit 2. This facilitates learning by pairing up the causes and solutions together. • On the other hand, certain measures have been expanded to highlight what the central government has done to secure the Resource and Ecological Security according to the <i>Geography Curriculum Framework of National Security Education</i>
	<p>pp. 40–2</p> <p>B Restoring vegetation cover and preventing further loss</p> <p>a Control grazing activities</p> <p>b Control farming activities</p>	<p>Rewritten and expand the content under two sub-sections. This helps students grasp the main points easily</p>
5	<p>pp. 47–58</p> <p>5.1 What can we learn from the experience of the Sahel?</p> <p>5.2 What can we learn from the experience of Australia?</p>	<p>Swap the two cases can facilitate learning. As the background of the Sahel has been introduced in Part 3, if students have learned this already, they may find the case of desertification in the Sahel easier to handle</p>
	<p>p. 49</p> <p>A Causes of desertification in the Sahel</p> <p>a Physical causes</p>	<p>Add in text rather than just providing two figures to explain the physical causes. This helps enhance students’ writing skills</p>
	<p>pp. 51–2</p> <p>a Planting trees</p> <p>b Applying appropriate farming methods to conserve water and soil</p> <p>c Controlling the size of herds</p> <p>d Reducing reliance on fuelwood</p>	<p>Rewrite and rearrange the content under four new points. As this section is arranged in similar structure as in Unit 4, this facilitates learning</p>



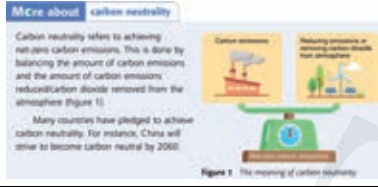

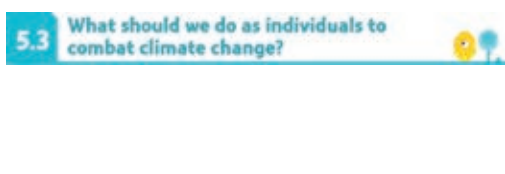
Unit	Major skill									
1	p. 3	<p>Describe the environment from a photograph</p>  <table border="1" data-bbox="1050 481 1481 593"> <tr> <td>Atmosphere</td> <td>(Cloudy / Cloudless)</td> </tr> <tr> <td>Vegetation</td> <td>(Dense / Sparse)</td> </tr> <tr> <td>Land</td> <td>(Barren and dry / Fertile and wet)</td> </tr> </table>	Atmosphere	(Cloudy / Cloudless)	Vegetation	(Dense / Sparse)	Land	(Barren and dry / Fertile and wet)		
Atmosphere	(Cloudy / Cloudless)									
Vegetation	(Dense / Sparse)									
Land	(Barren and dry / Fertile and wet)									
	p. 6	<p>Describe the rainfall and temperature characteristics of a place by reading its climatic graph</p> <p>Place X</p>  <table border="1" data-bbox="810 974 1385 1220"> <thead> <tr> <th colspan="2">Place X</th> </tr> </thead> <tbody> <tr> <td>Annual rainfall</td> <td>(Higher / Lower)</td> </tr> <tr> <td>Distribution of rainfall</td> <td>Rainfall occurs (every month / few months) in a year</td> </tr> <tr> <td>Mean daily range of temperature</td> <td>(Larger / Smaller)</td> </tr> </tbody> </table>	Place X		Annual rainfall	(Higher / Lower)	Distribution of rainfall	Rainfall occurs (every month / few months) in a year	Mean daily range of temperature	(Larger / Smaller)
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Annual rainfall	(Higher / Lower)									
Distribution of rainfall	Rainfall occurs (every month / few months) in a year									
Mean daily range of temperature	(Larger / Smaller)									
	p. 7	<p>Describe the rainfall pattern of a place over a long period of time</p>  <p>Note: The average annual rainfall in this desert: 70–150 mm.</p>								
		<p>Calculate the daily range of temperature</p>  <div data-bbox="1013 1702 1364 1937" style="border: 1px solid black; padding: 5px;"> <p>What is the daily range of temperature in the desert shown in Figure 7? (Hint: Daily range of temperature is the difference between daily maximum and minimum temperatures.)</p> </div>								

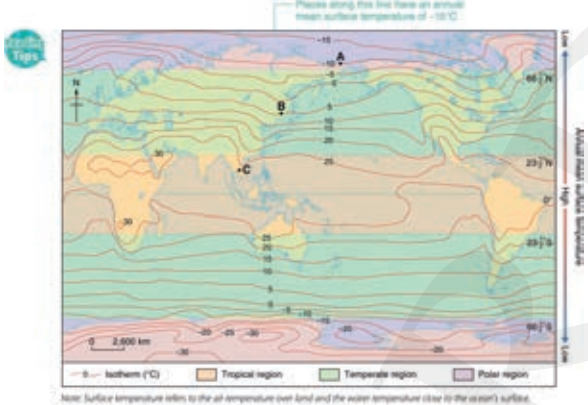
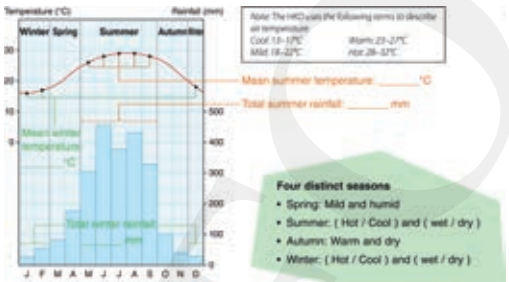
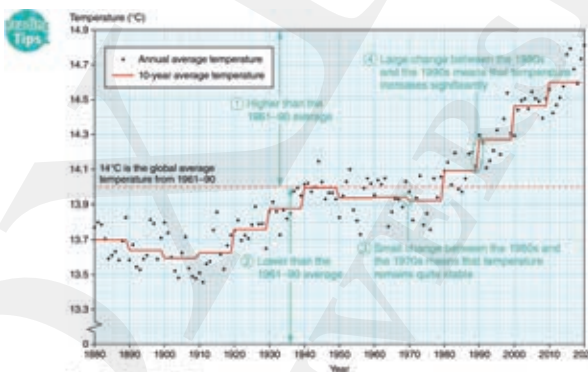
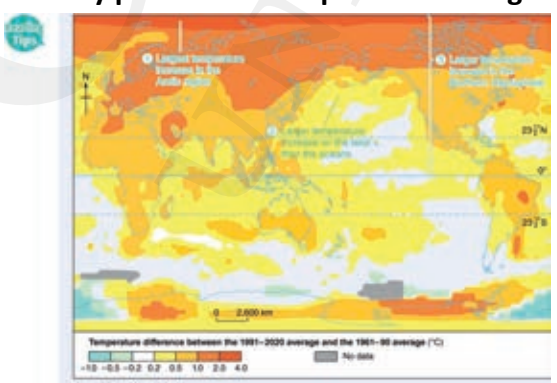
Unit	Major skill	
2	p. 17	<p>Interpret a satellite image</p>  <p>Annotations on the satellite image:</p> <ul style="list-style-type: none"> Sparse vegetation at the edge of the deserts in the northern and western parts as shown by the vast brown area. Dense vegetation in the eastern part as shown by the vast green area.
	p. 21	<p>Describe temperature variation from long-term average from a line graph</p>  <p>Temperature variation from long-term average (°C)</p> <p>Between 1996 and 2010, annual mean temperature was (lower / higher) than the long-term average</p>
3	p. 32	<p>Describe the relationship of two variables from a line graph</p>  <p>2 What is the relationship between wind speed and the occurrence of sand and dust storms?</p>
5	p. 49	<p>Describe rainfall variation from long-term average from a bar graph</p>  <p>Rainfall variation from the long-term average (mm)*</p> <p>Rainfall (higher / lower) than long-term average: (Wetter / Drier)</p> <p>Rainfall (higher / lower) than long-term average: (Wetter / Drier)</p>

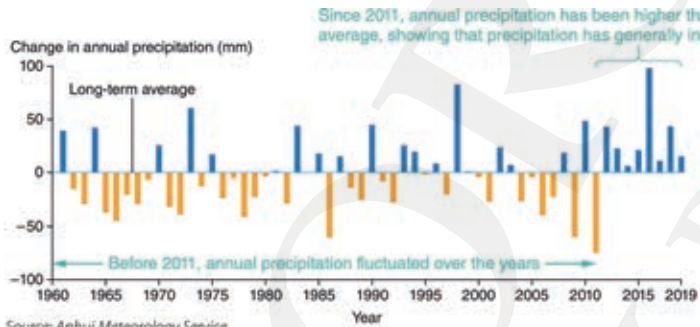
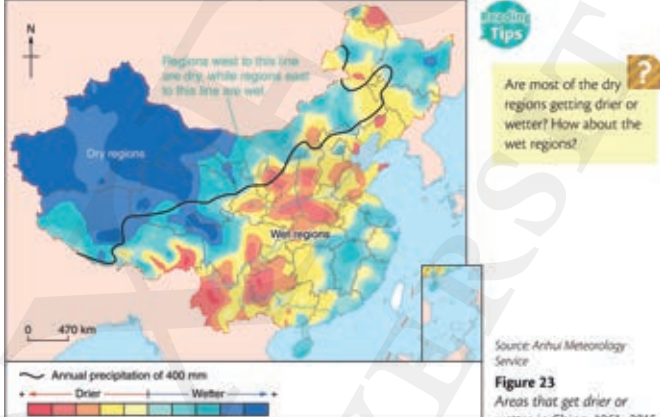
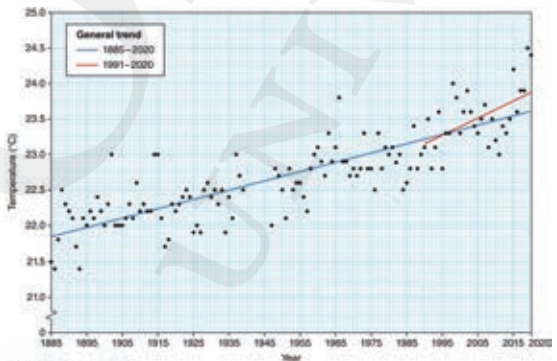
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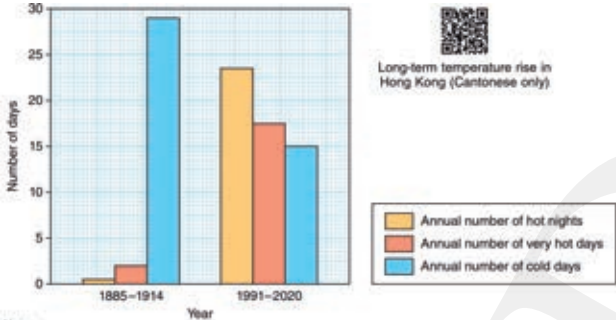
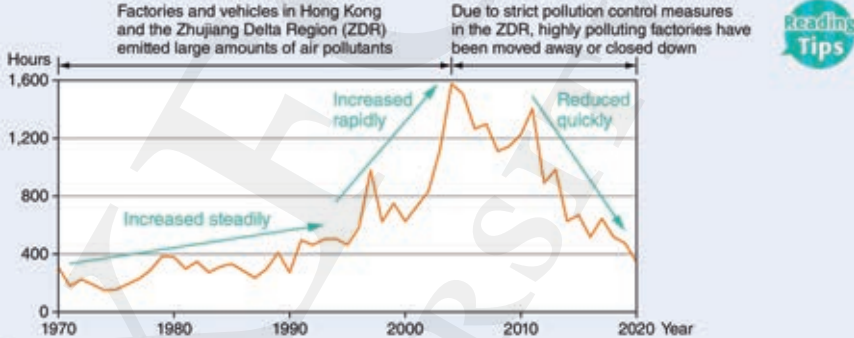
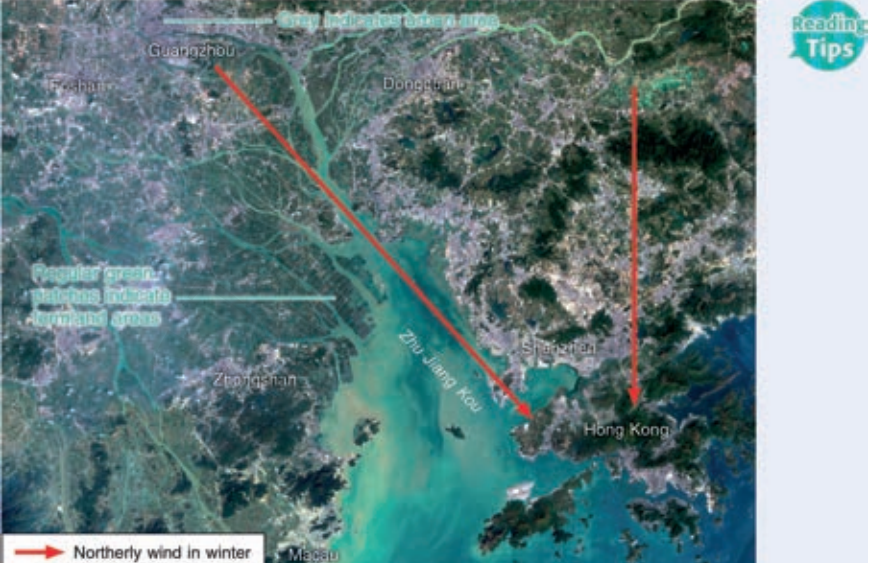
Changing climate, changing environments

Unit	Major change	
2	<p>pp. 16–17</p> 	<p>Rewrite the section about the human sources of greenhouse gases by grouping the sources by the types of gases. This makes it easier for students to know the major sources of a particular type of gas</p>
3	<p>pp. 28–9</p> 	<p>Add in a spread explaining how climate change may drive some species to extinction. Interesting examples and the colourful layout intend to raise students' awareness of the severity of the impacts of climate change on plants and animals</p>
	<p>pp. 32–4</p> <p>3.2 What are the possible benefits of climate change?</p> <p>More about polar ecosystems</p> 	<ul style="list-style-type: none"> • Restructure the content about the possible benefits of climate change by categorising them into gains from the polar regions and to the temperate regions. This facilitates learning • Add in the content explaining the importance of protecting the fragile polar ecosystems according to the <i>Geography Curriculum Framework of National Security Education</i>
	<p>pp. 35–6</p> <p>3.3 How does climate change affect China?</p> 	<p>Expand the content to explain in detail the effects of climate change in China. This improves students' understanding of how climate change has impacted China according to the <i>Geography Curriculum Framework of National Security Education</i></p>
4	<p>pp. 47–9</p> <p>4.2 What are the causes of the changing climate in Hong Kong?</p> <p>A Global climate change B Urban development in Hong Kong</p> 	<p>Rearrange the causes of the changing climate in Hong Kong into global climate change and urban development. This highlights the importance of global climate change, as Hong Kong has experienced a change in climate in recent decades like the rest of the world</p>

Unit	Major change	
4	<p>p. 50</p> 	<p>Rewrite the content about changes of visibility in Hong Kong in the past decades as extra information, since visibility is not usually included as an element to describe changes in climate</p>
	<p>p. 51</p> 	<p>Rewrite and regroup the possible impacts of climate change in Hong Kong into three categories. This provides a clearer and more comprehensive description of these impacts</p>
5	<p>p. 53</p> 	<p>Add in the content about carbon neutrality as extra information to let students know about the meaning of the popular term and how it can be achieved</p>
	<p>pp. 54–8</p> <p>A Action taken by China</p> <p>a Slowing down the emission of greenhouse gases</p> <p>b Removing greenhouse gases from the atmosphere</p> <p>B Action taken by other countries</p>	<p>Rewrite and restructure the content according to the <i>Geography Curriculum Framework of National Security Education</i> by introducing the measures taken by China and other countries to combat climate change. This helps students understand the importance of these measures in safeguarding polar and ecological security</p>
	<p>pp. 59–61</p> 	<p>Rewrite the section about international cooperation in combating climate change. Using a simplified activity, highlight the views of some people in selected countries about reducing greenhouse gas emissions. This helps students understand the concerns about reducing emissions and views about who should be responsible</p>
	<p>pp. 62–3</p> 	<p>Expand and move the content about how individuals can help combat climate change to the end of this unit. The new activity and fieldwork raise students' awareness of their carbon emissions and teach them how to live a greener lifestyle</p>

Unit	Major skill	
1	p. 3	<p>Explain answers with evidence</p> <p>1 Which place is in the low-latitude region? Which is in the high-latitude region? Give evidence to support your answer.</p>
	p. 5	<p>Read isotherms on a map</p>  <p>Note: Surface temperature refers to the air temperature over land and the water temperature (close to the ocean) surface.</p> <p>Figure 3 Annual mean surface temperature of the world</p>
	p. 8	<p>Read a climatic graph</p>  <p>Note: The ITC uses the following terms to describe air temperature: Cool 5-17°C Warm 23-27°C Mild 18-22°C Hot 28-32°C</p> <p>Four distinct seasons:</p> <ul style="list-style-type: none"> • Spring: Mild and humid • Summer: (Hot / Cool) and (wet / dry) • Autumn: Warm and dry • Winter: (Hot / Cool) and (wet / dry)
	p. 9	<p>Identify changes in temperature from a line graph</p>  <p>Annotations:</p> <ul style="list-style-type: none"> ① Higher than the 1961-90 average ② Lower than the 1961-90 average ③ Small change between the 1980s and the 1970s means that temperature remains quite stable ④ Large change between the 1980s and the 2000s means that temperature increases significantly <p>Source: Tim Osborn (CRU, UK)</p>
	p. 10	<p>Identify patterns in temperature change from a map</p>  <p>Annotations:</p> <ul style="list-style-type: none"> • Warmest place in the world: Saudi Arabia • Coldest place in the world: Antarctica <p>Temperature difference between the 1981-2020 average and the 1961-90 average (°C): +1.0 -0.5 -0.2 0.2 0.5 1.0 2.0 3.0 4.0</p> <p>Source: Adapted from NASA</p>

Unit	Major skill	
2	p. 16	<p>Calculate changes from a line graph</p> <p>1 Calculate the change in the atmospheric concentration of carbon dioxide between 1880 and 2020.</p>
3	p. 22	<p>GIS</p> <p>How can we use Google Earth Pro to show changes in the ice cover?</p>
	p. 31	<p>GIS</p> <p>How can we use GIS to show the areas affected by the major harmful effects of climate change?</p>
	p. 35	<p>Describe changes from a bar graph</p>  <p>Source: Anhui Meteorology Service</p>
		<p>Identify changes from a map</p>  <p>Source: Anhui Meteorology Service</p> <p>Figure 23 Areas that get drier or wetter in China, 1961–2015</p>
4	p. 44	<p>Describe and compare trends from a scatter graph with trend lines</p>  <p>Note: No data from 1945–46. Source: Hong Kong Observatory</p> <p>Figure 1 Annual mean temperature of Hong Kong, 1885–2020</p> <ol style="list-style-type: none"> Describe the general trend in annual mean temperature from 1885–2020. Compare the general trends between 1885–2020 and 1991–2020. Has the change in annual mean temperature been getting faster or slower? How can you tell?

Unit	Major skill																	
4	p. 45	<p>Read a grouped bar graph</p>  <p>Long-term temperature rise in Hong Kong (Cantonese only)</p> <p>Note: 1 A hot night refers to a day with a minimum temperature of 28°C or above. 2 A very hot day refers to a day with a maximum temperature of 33°C or above. 3 A cold day refers to a day with a minimum temperature of 12°C or below. Source: Hong Kong Observatory</p> <p>Figure 2 Annual number of hot nights, very hot days and cold days in 1885–1914 and 1991–2020</p> <p>Calculate the differences in the annual number of hot nights, very hot days and cold days in the two periods shown. Complete Table 1.</p> <p>Table 1</p> <table border="1" data-bbox="406 817 1133 963"> <thead> <tr> <th></th> <th>Number of hot nights</th> <th>Number of very hot days</th> <th>Number of cold days</th> </tr> </thead> <tbody> <tr> <td>1885–1914</td> <td>0.5</td> <td></td> <td></td> </tr> <tr> <td>1991–2020</td> <td>23.5</td> <td></td> <td></td> </tr> <tr> <td>Percentage change</td> <td>+4,600%</td> <td></td> <td></td> </tr> </tbody> </table>		Number of hot nights	Number of very hot days	Number of cold days	1885–1914	0.5			1991–2020	23.5			Percentage change	+4,600%		
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p. 50	p. 50	<p>Identify trends from a line graph</p>  <p>Factories and vehicles in Hong Kong and the Zhujiang Delta Region (ZDR) emitted large amounts of air pollutants</p> <p>Due to strict pollution control measures in the ZDR, highly polluting factories have been moved away or closed down</p> <p>Source: Hong Kong Observatory</p>																
		<p>Identify features from a satellite image</p>  <p>Guangzhou-Lanzhou Expressway</p> <p>Guangzhou</p> <p>Foshan</p> <p>Dongguan</p> <p>Zhu Jiang River</p> <p>Shenzhen</p> <p>Hong Kong</p> <p>Macau</p> <p>Northerly wind in winter</p> <p>Foggy areas - patches indicate terminal areas</p>																