

91429R



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

## Level 3 Geography, 2013

**91429 Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills**

9.30 am Friday 22 November 2013

Credits: Four

### RESOURCE BOOKLET

Refer to this booklet to answer the questions for Geography 91429.

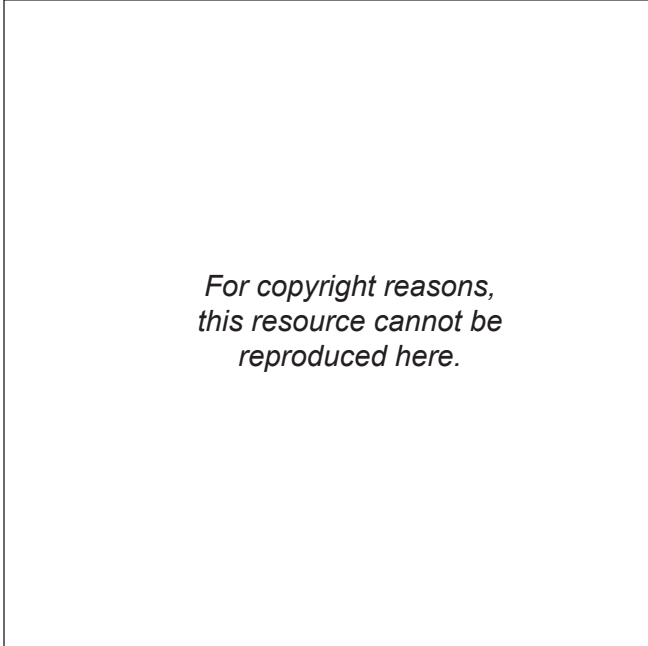
Check that this booklet has pages 2–12 in the correct order and that none of these pages is blank.

**YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.**

# THE NATURAL AND CULTURAL ENVIRONMENT OF HONG KONG

## Resource A: Hong Kong's Location and Territories

**Hong Kong** is located on China's south coast. It is surrounded by the South China Sea on the east, south, and west. Hong Kong primarily consists of three main territories: Hong Kong Island, Kowloon Peninsula, and the New Territories. Hong Kong was a British colony from 1842 until 1997, when China resumed sovereignty.



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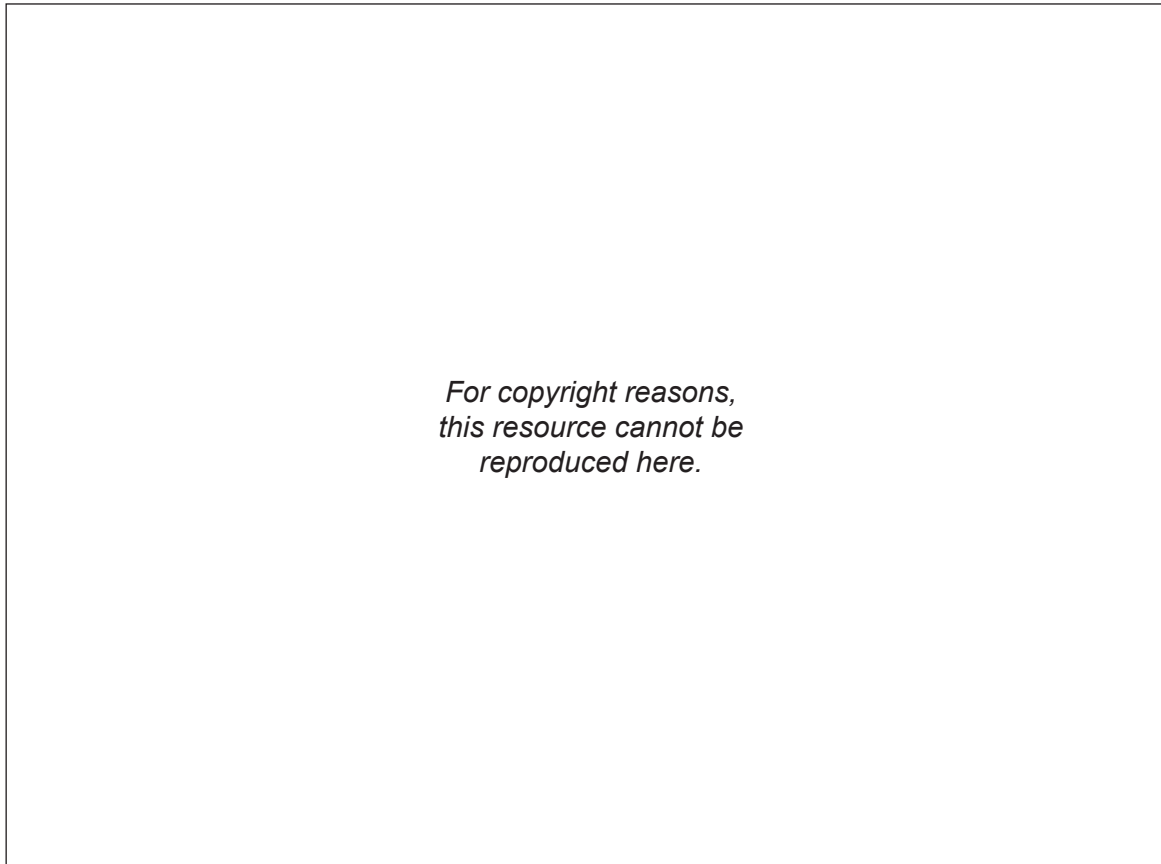
**Figure 1: Location map**



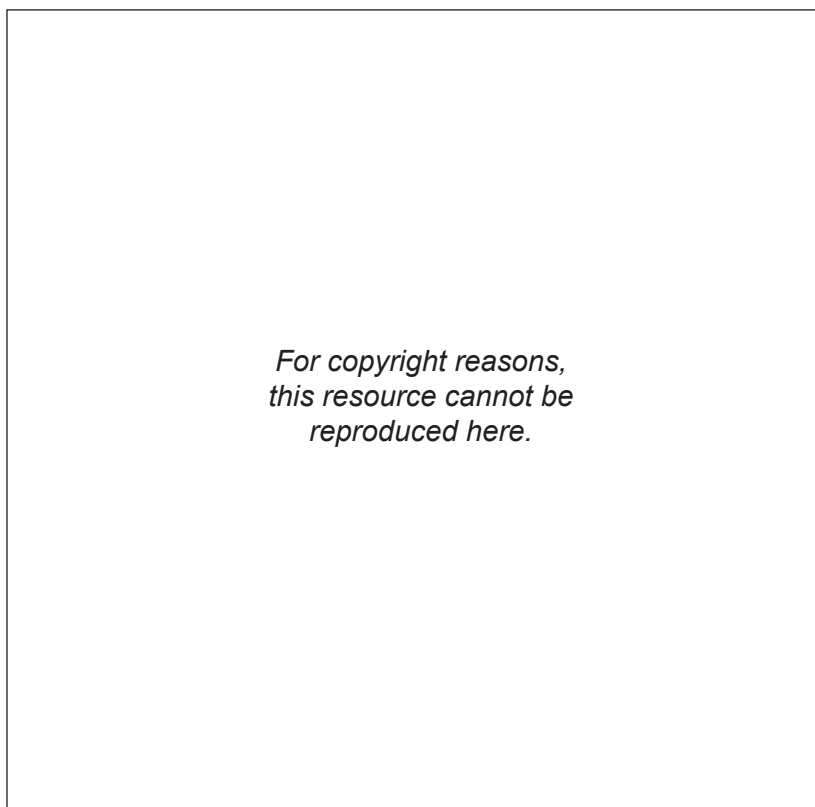
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**Figure 2: Key territories**

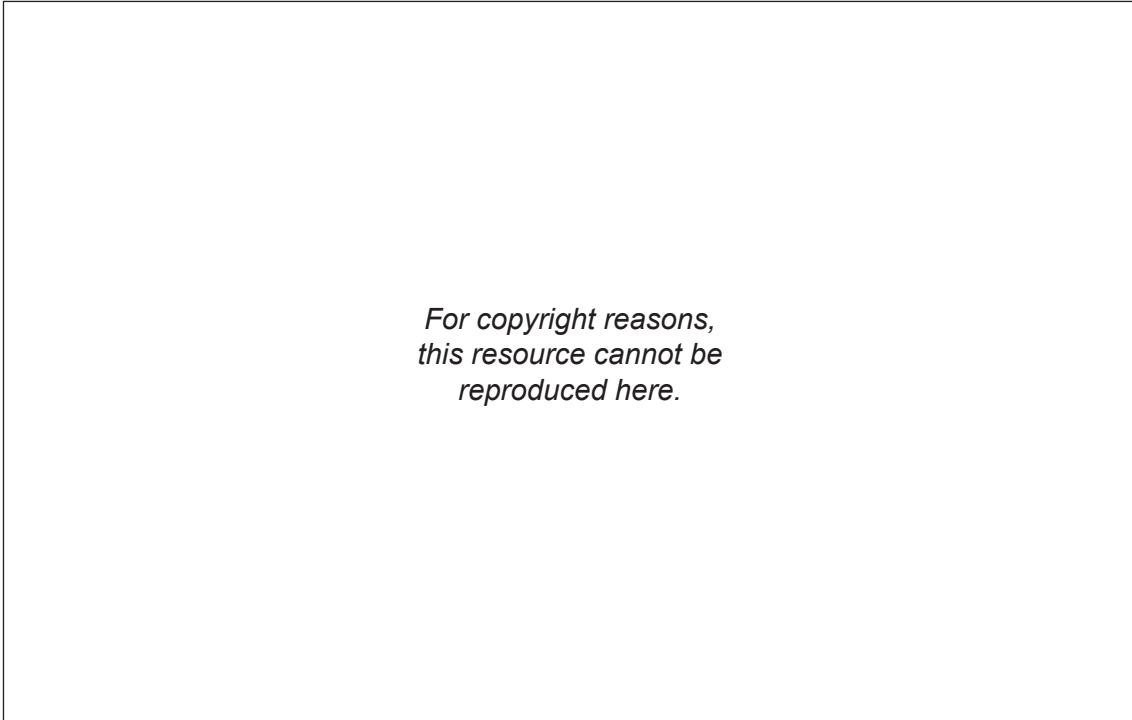
**Resource B: Average Annual Rainfall Distribution in Hong Kong (1981–2010)**



**Resource C: Average Annual Climate Data for Hong Kong**



**Resource D: Satellite Image of Hong Kong**



**Resource E: Relief of Hong Kong**



**Resource F: Topographic Map of Hong Kong**



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## Resource G: Population Facts and Figures

<b>Households</b>			
	<b>2007</b>	<b>2011</b>	<b>2012<sup>#</sup></b>
<b>Number of Households ('000)</b>	2 250 (+1.3)	2 359 (+1.5)	2 379 (+0.8)
<b>Population Density<sup>1</sup> by Area</b>			
	<i>Persons per square km</i>		
	<b>2007</b>	<b>2011</b>	<b>2012</b>
Hong Kong Island	16 140	15 920	16 020
Kowloon	43 280	44 920	45 730
New Territories and Islands	3 770	3 870	3 910
<b>TOTAL</b>	<b>6 400</b>	<b>6 540</b>	<b>6 620</b>

**Notes:** Figures are as at the end of June of the year.

<sup>#</sup> Provisional figure for 2012.

<sup>1</sup> Excluding marine population and area of reservoirs.

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**Figure 3: High density housing**

## Resource H: Hong Kong Population Pyramid (2011)

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**Resource I: Hong Kong Population Growth (1981–2011)**

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**Resource J: Land Reclamation**

When British trading ships first came to Hong Kong in the 1840s, the island offered a small strip of flat land, which rose steeply to the 550-metre peak. Reclamation – taking land from the sea – was planned for from the start.

Begun in 1889, the first major project added almost 4.5 hectares of new land, creating what is now called "Central", the primary business district.

Since then, Hong Kong has grown at a fast rate. The government created 500–700 hectares of land every five years until 2005, when new environmental awareness and legal sanctions cut the growth back to under 100 hectares over five years.

As of early 2011, about 6 % of land in Hong Kong (6 824 hectares) has come from reclamation.

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**Figure 4: Land reclamation**

**Resource K: The Development of Reclamation in Hong Kong to 2000**

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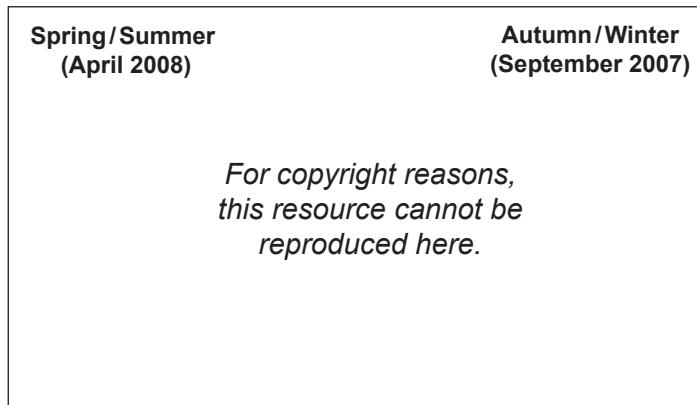


## THE AIR QUALITY ISSUE FACING HONG KONG

### Resource L: Licensed Private Cars per 100 000 People in Hong Kong (1981–2010)

Year	1981	1986	1991	1996	2001	2006	2007	2008	2009	2010
Number	3630	2500	3650	4570	5060	5220	5360	5480	5560	5860

### Resource M: Smog in Hong Kong



**Figure 5: Haze comparison**

Hong Kong faces two air pollution issues: local street-level pollution, and regional smog. ...

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...Air pollution also has negative economic impacts – it costs a staggering HK\$2 billion in health care and lost productivity each year.



**Figure 6: Evolving urban form**

## FACING THE FUTURE

### Resource N: Proposals for the future

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**Figure 7: Air pollution**

Hong Kong's Chief Executive, Mr Leung Chun-Ying, outlined proposals in January 2013 to alleviate the severe housing shortages and air pollution that the city faces. ...

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... "We will continue to collaborate with the Guangdong Provincial Government on emission reduction measures to further reduce the levels of pollution in Hong Kong", the spokesperson said.

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## Resource O: Housing and Transport Needs

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**Figure 9: Hong Kong population growth rate 1931–2011 (by decade)**

<b>Public Transport Passenger Journeys</b>			
	'000		
	2007	2011	2012 <sup>#</sup>
<b>Average Daily Passenger Journeys</b>	11 523	11 914	12 092
<i>Note: Figures are averages of the whole year.</i>			
<i># Provisional figure for 2012.</i>			
<b>Public Roads</b>			
	Kilometres		
	2007	2011	2012
Length of public roads	2 009	2 086	2 090

**Figure 10: Public transport statistics**

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**Figure 11: Map of MTR, ferry, and tramway**

## ACKNOWLEDGEMENTS

Material from the following sources has been accessed and adapted for use in this examination.

Page(s)	Source
2	Resource A: Text and Figures 1 and 2: <a href="http://www.statistics.gov.hk/pub/B10100062013AN13E0100.pdf">http://www.statistics.gov.hk/pub/B10100062013AN13E0100.pdf</a>
3	Resource B: <a href="http://www.hko.gov.hk/cis/climahk_e.htm">http://www.hko.gov.hk/cis/climahk_e.htm</a>  Resource C: <a href="http://www.edb.gov.hk/index.aspx?nodeID=4230&amp;langno=1">http://www.edb.gov.hk/index.aspx?nodeID=4230&amp;langno=1</a>
4	Resource D: <a href="http://en.wikipedia.org/wiki/File:HongKong_boundary_from_space.png">http://en.wikipedia.org/wiki/File:HongKong_boundary_from_space.png</a>  Resource E: <a href="http://www.edb.gov.hk/index.aspx?nodeID=4230&amp;langno=1">http://www.edb.gov.hk/index.aspx?nodeID=4230&amp;langno=1</a>
5	Resource F: <a href="http://www.landsd.gov.hk/mapping/en/download/download/map/hm200le.jpg">http://www.landsd.gov.hk/mapping/en/download/download/map/hm200le.jpg</a>
6	Resource G: <a href="http://www.statistics.gov.hk/pub/B10100062013AN13E0100.pdf">http://www.statistics.gov.hk/pub/B10100062013AN13E0100.pdf</a> Figure 3: <a href="http://www.thefifthstate.com.au/archives/20345/">http://www.thefifthstate.com.au/archives/20345/</a>  Resource H: <a href="http://www.census2011.gov.hk/pdf/key-statistics-cover.pdf">http://www.census2011.gov.hk/pdf/key-statistics-cover.pdf</a>
7	Resource I: <a href="http://www.census2011.gov.hk/pdf/key-statistics-cover.pdf">http://www.census2011.gov.hk/pdf/key-statistics-cover.pdf</a>  Resource J: Text: <a href="http://www.guardian.co.uk/world/2012/may/27/hong-kong-islands-threat-wildlife">http://www.guardian.co.uk/world/2012/may/27/hong-kong-islands-threat-wildlife</a> Figure 4: <a href="http://youngpost.files.wordpress.com/2010/06/land-reclamation.jpg">http://youngpost.files.wordpress.com/2010/06/land-reclamation.jpg</a>
8	Resource K: <a href="http://www.vancitybuzz.com/2013/06/reality-check-is-vancouver-like-hong-kong-is-there-any-truth-to-hongcouver/">http://www.vancitybuzz.com/2013/06/reality-check-is-vancouver-like-hong-kong-is-there-any-truth-to-hongcouver/</a>
9	Resource L: <a href="http://www.socialindicators.org.hk/en/indicators/environmental_quality/19.8">http://www.socialindicators.org.hk/en/indicators/environmental_quality/19.8</a>  Resource M: Figure 5: <a href="http://en.wikipedia.org/wiki/File:Hong_kong_haze_comparison.jpg">http://en.wikipedia.org/wiki/File:Hong_kong_haze_comparison.jpg</a> Text and Figure 6: <a href="http://www.newgeography.com/content/002708-the-evolving-urban-form-hong-kong">http://www.newgeography.com/content/002708-the-evolving-urban-form-hong-kong</a>
10	Resource N: Text: <a href="http://www.nytimes.com/2013/01/17/world/asia/hong-kong-leader-pledges-to-ease-housing-shortage.html?_r=1&amp;">http://www.nytimes.com/2013/01/17/world/asia/hong-kong-leader-pledges-to-ease-housing-shortage.html?_r=1&amp;</a> and <a href="http://www.mnn.com/earth-matters/wilderness-resources/stories/hong-kong-begins-monitoring-fine-particle-pollution">http://www.mnn.com/earth-matters/wilderness-resources/stories/hong-kong-begins-monitoring-fine-particle-pollution</a> Figure 7: <a href="http://www.hkoutdoors.com/hong-kong-news/hk-air-pollution.html">http://www.hkoutdoors.com/hong-kong-news/hk-air-pollution.html</a> Figure 8: <a href="http://static.guim.co.uk/sys-images/Guardian/Pix/maps_and_graphs/2012/5/21/1337606835400/Hong-Kong-reclamation-sit-001.png">http://static.guim.co.uk/sys-images/Guardian/Pix/maps_and_graphs/2012/5/21/1337606835400/Hong-Kong-reclamation-sit-001.png</a> (at <a href="http://www.guardian.co.uk/world/2012/may/27/hong-kong-islands-threat-wildlife">http://www.guardian.co.uk/world/2012/may/27/hong-kong-islands-threat-wildlife</a> )
11	Resource O: Figure 9: <a href="http://www.newgeography.com/content/002708-the-evolving-urban-form-hong-kong">http://www.newgeography.com/content/002708-the-evolving-urban-form-hong-kong</a> Figure 10: <a href="http://www.statistics.gov.hk/pub/B10100062013AN13E0100.pdf">http://www.statistics.gov.hk/pub/B10100062013AN13E0100.pdf</a> Figure 11: <a href="http://hong-kong-travel.org/MTR/">http://hong-kong-travel.org/MTR/</a>