

**Geography Curriculum Framework of National Security Education****Geography (S1 - S3)****1. General teaching foci**

- 1.1. Through studying different issues, students should first understand the geographical environment of China and other countries/places as the foundation to apprehend the interrelationship between human activities and the environment, as well as the importance of sustainable development. Besides, they should recognise the necessity of safeguarding homeland security, new security domains, ecological security, resource security and nuclear security.
- 1.2. About one third of the junior secondary geography curriculum is the study of the geography of China, such as rivers and deserts. Before studying geographical topics and examples on China, students must acquire geographical knowledge related to our country, such as its location, territory and borders, relief and resources, etc. as foundation in studying respective topics and examples.
- 1.3. Through the study of issues of China, students will have a comprehensive understanding of our country and be provided with an opportunity to study it in a systematic and in-depth manner. This helps cultivate students' sense of belonging to our country and their readiness to become active and responsible citizens.

## 2. Learning foci

Geography (S1 - S3)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
Core Module: Food Problem — Can we feed ourselves?  <ul style="list-style-type: none"> <li>• Where are the farmlands in China?</li> <li>• Can we produce enough food for our growing population?</li> <li>• How can the problems be solved?</li> </ul>	<ul style="list-style-type: none"> <li>• Understand how farming problems in China affect its food supply, and how our country solves these problems to ensure the stability of food supply               <ul style="list-style-type: none"> <li>➤ Discuss how our country's farming problems affect its food supply, so as to understand that food is an important resource of a country. Therefore, it is necessary to ensure stable food supply for safeguarding resource security; otherwise there will be a crisis of food (resource) shortage.</li> <li>➤ Through investigating into scientific farming methods and other solutions, students will understand the methods used by our country to improve agricultural productivity and ensure stable food supply, as well as important strategies for safeguarding resource security.</li> </ul> </li> </ul>	1	<ul style="list-style-type: none"> <li>• Understand the definition of national security and the 13 domains of national security (e.g. resource security)</li> </ul>
Core Module: The Trouble of	<ul style="list-style-type: none"> <li>• Understand the distribution patterns of major rivers in China, and how drought and water pollution exacerbate our country's water</li> </ul>		<ul style="list-style-type: none"> <li>• Understand the definition of national security and the 13 domains of national</li> </ul>

Geography (S1 - S3)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
Water — Too much and too little <ul style="list-style-type: none"> <li>• Where are the major rivers in China?</li> <li>• What's wrong with the water cycle of China in the past few decades?</li> <li>• What can be done to solve the water problems?</li> </ul>	<p>shortage. Learn about how our country solves water problems to ensure the stability of water supply</p> <p>➤ Show a distribution map of the major rivers and water resources of our country, so that students will understand the problems of uneven distribution of water resources in our country. Students should understand that drought and water pollution are among the reasons that aggravate our country's water shortage and recognise the importance of safeguarding the security of water resources of our country (i.e. resource security).</p> <p>➤ Ask students to discuss various methods for properly managing and utilising water resources, so that they will understand that safeguarding, properly managing and utilising our country's water resources is an important part of national security (e.g. resource security).</p> <ul style="list-style-type: none"> <li>• Understand the impact of water pollution on the ecology and how China solves the problem of water pollution for environmental protection</li> </ul> <p>➤ Show photos and video clips of water pollution to students and ask them to discuss the impact of water pollution on rivers and the</p>	1	security (e.g. resource security, ecological security)
		7	<ul style="list-style-type: none"> <li>• Explore topics related to ecological security and new security domains (e.g. biodiversity, conservation, and exploration and protection of deep sea and polar regions), understand the impact of human activities on the ecology and environment, and the necessity of safeguarding ecological security and new security domains.</li> </ul>

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Chapter / Topic	Learning Elements	Strand	Learning Elements
	<p>marine ecological environment (especially biodiversity), as well as on their daily lives, so that they will realise the importance of ecological security. Next, ask students to propose different solutions to water pollution. Let students understand the ways adopted by our country to alleviate water pollution problem with real cases, so that they understand our country's effort in safeguarding ecological security. If water pollution problem is not handled properly, the harm to the ecological environment and impact on human beings will be far-reaching.</p>		
Core Module: Scramble for Energy  • Is nuclear power a possible way out?	<ul style="list-style-type: none"> <li>• Recognise the pros and cons of using nuclear power and its increasing role in future energy supply               <ul style="list-style-type: none"> <li>➤ Using Daya Bay Nuclear Power Plant and the incident of the Chernobyl Nuclear Power Plant in the Soviet Union as two contrasting examples, discuss the advantages of using nuclear energy properly, as well as the serious consequences and ecological disasters brought by its improper use. Students will then understand that nuclear energy should be used safely in order to attain nuclear security.</li> </ul> </li> </ul>	1	<ul style="list-style-type: none"> <li>• Understand the definition of national security and the 13 domains of national security (e.g. nuclear security)</li> </ul>
		7	<ul style="list-style-type: none"> <li>• Understand the importance of homeland security, resource security and nuclear security to the social-economic development of the country through learning the geographical characteristics of our country</li> </ul>

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Chapter / Topic	Learning Elements	Strand	Learning Elements
Elective Module: Changing Climate, Changing Environments <ul style="list-style-type: none"> <li>• What are the effects of climate change on different parts of the world?</li> <li>• What have been done to deal with climate change?</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the impact of climate change on China (including Hong Kong), and learn about the measures adopted by China and other countries in combating climate change               <ul style="list-style-type: none"> <li>➤ Through satellite images, understand the impact of climate change on polar ice and the ecological environment. Students should understand how human activities pose a threat to polar security (new security domain) and ecological security.</li> <li>➤ Through the discussion of various measures to deal with climate change, students should understand the different ways to attain and the importance of safeguarding polar security and ecological security.</li> </ul> </li> </ul>	1	<ul style="list-style-type: none"> <li>• Understand the definition of national security and the 13 domains of national security (e.g. new security domains, ecological security)</li> </ul>
		7	<ul style="list-style-type: none"> <li>• Explore topics related to ecological security and new security domains (e.g. biodiversity, conservation, and exploration and protection of deep sea and polar regions), understand the impact of human activities on the ecology and environment, and the necessity of safeguarding ecological security and new security domains.</li> </ul>
Elective Module: Taming	<ul style="list-style-type: none"> <li>• Understand how human activities lead to desertification and its negative effects on the natural environment (such as affecting</li> </ul>	1	<ul style="list-style-type: none"> <li>• Understand the definition of national security and the 13 domains of national</li> </ul>

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<p>the Sand — A long-lasting combat against desertification and sandstorms</p> <ul style="list-style-type: none"> <li>• How do physical factors and human activities lead to desertification in this part of China?</li> <li>• What are the measures for alleviating the negative impact of desertification?</li> </ul>	<p>China's land resources). Learn about the measures adopted by our country to alleviate the impact of desertification on land resources and the ecology</p> <ul style="list-style-type: none"> <li>➤ Through photos and video clips, describe and explain how desertification and sandstorms damage land resources and affect the ecological environment of our country, thereby affecting our country's resource security and ecological security.</li> <li>➤ Discuss with students the various measures adopted by our country to alleviate desertification and sandstorms. Explain how our country is committed to protecting land resources and the ecological environment in order to safeguard resource security and ecological security.</li> </ul>		<p>security (e.g. resource security, ecological security)</p>
		7	<ul style="list-style-type: none"> <li>• Explore topics related to ecological security and new security domains (e.g. biodiversity, conservation, and exploration and protection of deep sea and polar regions), understand the impact of human activities on the ecology and environment, and the necessity of safeguarding ecological security and new security domains.</li> </ul>

Geography (S1 - S3)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
ion and sandstorms in China?			
Elective Module: Oceans in Trouble	<ul style="list-style-type: none"> <li>Understand China's territorial waters and the major types of ocean resources (including food, energy and minerals), and their distribution pattern</li> </ul>	1	<ul style="list-style-type: none"> <li>Understand the definition of national security and the 13 domains of national security (e.g. homeland security, resource security, ecological security)</li> </ul>
<ul style="list-style-type: none"> <li>Where are the major oceans and seas?</li> <li>What are the major types of ocean resources? Where can they be found?</li> <li>What are the problems</li> </ul>	<p>➤ Show a map of China's territory and territorial waters so that students should recognise the area of China's territory. Students should also understand that Nanhai Zhudao and relevant waters (the area within the dotted line or the nine-dash line) have been part of China since ancient times, with a history of more than two thousand years. China has territorial sovereignty over and maritime rights and interests in relevant waters. This area abounds in ocean resources. The territorial lands and waters of the South China Sea have been involved in disputes in recent years. Students can have a rough understanding that the issues involve safeguarding both the territorial integrity and the resource security.</p> <ul style="list-style-type: none"> <li>Understand the negative impact of overfishing and marine pollution on the ecological environment and the measures to reduce these</li> </ul>	7	<ul style="list-style-type: none"> <li>Explore topics related to ecological security and new security domains (e.g. biodiversity, conservation, and exploration and protection of deep sea and polar regions), understand the impact of human activities on the ecology and environment, and the necessity of safeguarding ecological security and new security domains.</li> <li>Understand the importance of homeland security, resource security and nuclear security to the social-economic</li> </ul>

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Chapter / Topic	Learning Elements	Strand	Learning Elements
<p>affecting our oceans?</p> <ul style="list-style-type: none"> <li>• What can be done to save our oceans?</li> </ul>	<p>negative impact. Understand the importance of developing and managing ocean resources in a sustainable way.</p> <ul style="list-style-type: none"> <li>➤ Play video clips about the impact of overfishing and marine pollution on the ecological environment. Ask students to describe and explain how these human activities affect the ecological environment, especially biodiversity, so that they will understand the importance of safeguarding ecological security.</li> <li>➤ Understand the measures taken by China to conserve the ocean (such as fishing moratoriums). Understand how to develop and manage ocean resources sustainably in order to safeguard ecological security.</li> </ul>		<p>development of our country through learning the geographical characteristics of our country</p>
<p>Elective Module: The Geography of Disease — Facing a spreading risk</p> <ul style="list-style-type: none"> <li>• What are the global</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the characteristics of infectious diseases and their impact on individuals and societies. Learn about the control measures of infectious diseases adopted by Hong Kong, the Mainland and other places</li> <li>➤ Choose a disease as the example for study, learn about its characteristics and how it affects individuals and societies. Students should understand that new security domains (such as biosecurity) is an important part of safeguarding national security.</li> </ul>	1	<ul style="list-style-type: none"> <li>• Understand the definition of national security and the 13 domains of national security (e.g. new security domains)</li> </ul>
		7	<ul style="list-style-type: none"> <li>• Explore topics related to ecological security and new security domains (e.g. biodiversity, conservation, and exploration and protection of deep sea and polar regions), understand the impact of</li> </ul>



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Chapter / Topic	Learning Elements	Strand	Learning Elements
<p>outbreak and death patterns of the disease chosen for this study?</p> <ul style="list-style-type: none"> <li>• What can we do to prevent the spread of infectious diseases to and in Hong Kong?</li> </ul>	<p>If these new security domains (such as biosecurity) are not taken seriously, human health and social development will face serious threats.</p> <p>➤ Through learning the control measures to fight against infectious diseases adopted by Hong Kong, the Mainland and other parts of the world, understand the importance of research, development and application of biotechnology in controlling the epidemic. Recognise the necessity of safeguarding national security (e.g. new security domain - biosecurity).</p>		<p>human activities on the ecology and environment, and the necessity of safeguarding ecological security and new security domains</p>

### 3. Suggested learning and teaching activities (examples) (junior secondary)

#### ◇ **Project learning**

- Teachers can design relevant project learning assignments in accordance with the curriculum, so that students will have deeper understanding of the topics through self-directed learning. For example:
  - **【Link to junior secondary topic: Food Problem — Can we feed ourselves?】** How the scientific farming methods adopted by our country improve agricultural productivity and ensure food supply
  - **【Link to junior secondary topic: The Trouble of Water — Too much and too little】** The progress of initiatives implemented by our country to secure water resources and safeguard ecological security

#### ◇ **Mainland study tours**

- **【Link to junior secondary topic: The Trouble of Water — Too much and too little】** Field trip to the Three Gorges of Chang Jiang to learn about how the Three Gorges Dam helps maintain the stability of water resources.
- **【Link to junior secondary topic: Taming the Sand — A long-lasting combat against desertification and sandstorms】** Field trip to Ningxia to learn about our country's efforts in alleviating desertification, so as to understand how our country conserves land resources to ensure resource security and ecological security.

#### ◇ **Cross-curricular collaboration**

- Organise “Chinese Culture, History and Geography Week” with relevant exhibitions or game booths in collaboration with panels of Chinese Language and Chinese History.

#### ◇ **Quiz competition on “Geography of China”**

- Schools can organise inter-class or inter-house quiz competitions on “Geography of China”, so that students can actively learn about the geographical location, territory, relief and resources of our country, thus having a better understanding of our country.

**✧ Online learning activities**

- Teachers can facilitate students' self-directed learning with the online resources on the geography of China developed by the Education Bureau (such as PowerPoints, e-books, animations and online games), so that they can have a better understanding of our country. Teachers can also design appropriate self-directed learning activities which are in line with the curriculum aims and objectives to allow students to understand the concern and importance attached by other countries on issues related to homeland security, resource security and ecological security.

**Geography (S4 - S6)****1. General teaching foci**

- 1.1. Through studying geography, students learn about the geographical environment and regional disparities of different countries, so that they will understand the importance of homeland security and new security domains to a country. Students will realise how natural disasters, environmental pollution, resource depletion and other issues have brought great challenges to China and the world. They will appreciate the interdependence between different organisms and fragility of the ecological environment, and will understand the importance of safeguarding ecological security and resource security.
- 1.2. About one third of the senior secondary geography curriculum is about the study of geography of China, such as rivers and industrial development. Before studying our country's geographical topics and examples, students must acquire its geographical knowledge, such as location, territory and borders, relief and resources, etc. as the foundation for learning related topics and examples.
- 1.3. Through the study of examples about China, students can have a better understanding of our country, develop a sense of belonging to our country, and be ready to become active and responsible citizens.

## 2. Learning foci

Geography (S4 - S6)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
<p>Compulsory Part: Managing River and Coastal Environments: A continuing challenge</p> <ul style="list-style-type: none"> <li>• How do human activities influence river and coastal environments and what are the resulting consequences?</li> <li>• How does the management of river and coastal systems pose a continuing</li> </ul>	<ul style="list-style-type: none"> <li>• Learn about how human activities cause river and coastal pollution and damage the ecological environment. Understand that the natural environment needs sustainable management</li> <li>➤ Show photos of river and coastal pollution caused by human activities. Ask students to discuss how the ecological environment will be damaged if pollution problems are not addressed by safeguarding ecological security, so that they will understand the importance of safeguarding ecological security.</li> <li>➤ Guide students to discuss ways to address the problem of water pollution. Introduce measures adopted by Hong Kong and the Mainland to manage rivers and coasts. Finally, teachers to conclude that the sustainable management of rivers and coasts is an important way to safeguard ecological security.</li> </ul>	7	<ul style="list-style-type: none"> <li>• Understand the impact of human activities on the ecological environment and our responsibilities, understand the needs of sustainable development, and recognise the necessity of safeguarding ecological security, resource security, nuclear security and new security domains</li> </ul>

Geography (S4 - S6)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
challenge for people?			
<p>Compulsory Part: Changing Industrial Location – How and why does it change over space and time?</p> <ul style="list-style-type: none"> <li>• Where are the major iron and steel industrial centres in China?</li> <li>• Why are they there?</li> <li>• How has the location of China's iron and steel industry</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the distribution of China's iron and steel industrial centres and the reasons for their locations <ul style="list-style-type: none"> <li>➤ When teaching the topic of industrial location, show maps of our country's territory and the locational distribution of the iron and steel industry to let students understand the coverage of our country's territory, as well as the location, spatial distribution and locational changes of China's iron and steel industry (including resources such as coal and iron ores). They should also recognise the importance of homeland security. If homeland security is not safeguarded, our country's territorial integrity, survival and development will also be threatened.</li> <li>➤ Besides, students should understand that coal and iron ores are important power and raw materials for the iron and steel industry and other industries. They are also among our country's important resources. By making good use of these resources, national security (such as resource security) can be safeguarded.</li> </ul> </li> </ul>	7	<ul style="list-style-type: none"> <li>• Understand the impact of human activities on the ecological environment and our responsibilities, understand the needs of sustainable development, and recognise the necessity of safeguarding ecological security, resource security, nuclear security and new security domains</li> </ul>

Geography (S4 - S6)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
changed over time?			
<p>Compulsory Part: Disappearing Green Canopy — Who should pay for the massive deforestation in rainforest regions?</p> <ul style="list-style-type: none"> <li>• What is the impact of large-scale deforestation in tropical rainforest regions?</li> <li>• How will it affect the local</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the impact of large-scale deforestation in tropical rainforests on climate, biosphere and lithosphere at a local and global scale, as well as the importance of tropical rainforest conservation. Learn about possible compromises between development and conservation for the sake of sustainable development</li> <li>➤ Show products or related photos of tropical rainforests, learn about how tropical rainforests are useful to humans and realise that they are precious resources. Understand that large-scale deforestation endangers resource security. If resource security is not safeguarded, it will lead to resource depletion and affect human life and survival.</li> <li>➤ Show photos of human activities which damage tropical rainforests, describe and explain how these activities affect the ecological environment of tropical rainforests and threaten ecological security.</li> <li>➤ Point out to students that there are tropical rainforests in the Yunnan-Guizhou Region and Hainan Province of China. Ask students to discuss ways to conserve these rainforests in order to safeguard our</li> </ul>	7	<ul style="list-style-type: none"> <li>• Understand the impact of human activities on the ecological environment and our responsibilities, understand the needs of sustainable development, and recognise the necessity of safeguarding ecological security, resource security, nuclear security and new security domains</li> </ul>

Geography (S4 - S6)		Curriculum Framework of National Security Education in Hong Kong	
Chapter / Topic	Learning Elements	Strand	Learning Elements
<p>and global environments?</p> <ul style="list-style-type: none"> <li>• How can tropical rainforests be prevented from disappearing?</li> </ul>	<p>country's resource security and ecological security. Finally, teachers to introduce measures taken by our country to conserve rainforests.</p>		
<p>Compulsory Part: Climate Change — Long-term fluctuation or irreversible trend?</p> <ul style="list-style-type: none"> <li>• What are the causes of global warming? Is global warming a natural or human-induced climate change at global scale?</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the causes and impact of climate change, and learn about various measures to mitigate and adapt to climate change in Hong Kong and the Mainland <ul style="list-style-type: none"> <li>➤ Understand the impact of climate change on polar ice and the ecological environment. Students should understand how human activities pose a threat to polar security (new security domain) and ecological security. Understand measures taken locally, nationally and globally to mitigate climate change.</li> <li>➤ Understand how to protect polar resources by mitigating climate change, for the sake of new security domain (e.g. polar security) and ecological security. If new security domain (e.g. polar security) is not safeguarded, it will affect the ecological environment, freedom of navigation, scientific investigations and research in polar regions.</li> </ul> </li> </ul>	1	<ul style="list-style-type: none"> <li>• Understand our country's opportunities and challenges in international affairs through examples (e.g. the "Belt and Road" initiative, Sino-US trade conflicts, climate change)</li> </ul>
		7	<ul style="list-style-type: none"> <li>• Understand the impact of human activities on the ecological environment and our responsibilities, understand the needs of sustainable development, and recognise the necessity of safeguarding ecological security,</li> </ul>



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Chapter / Topic	Learning Elements	Strand	Learning Elements
<ul style="list-style-type: none"> <li>• What will be the impact of climate change? How will it affect our lives?</li> <li>• What can be done about it?</li> <li>• Why is it so difficult to reach a global agreement to deal with climate change?</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the complexities of reaching a global agreement, in particular the conflicting views and roles of key players <ul style="list-style-type: none"> <li>➤ Recognise China's role in international conferences on climate change. Review the complexities of reaching a global agreement. Understand the opportunities and challenges faced by our country in international affairs.</li> </ul> </li> </ul>		resource security, nuclear security and new security domains
Elective Part: Regional Study of Zhujiang (Pearl River) Delta <ul style="list-style-type: none"> <li>• Change, development and</li> </ul>	<ul style="list-style-type: none"> <li>• Learn about the causes and impact of environmental pollution in Zhujiang (Pearl River) Delta, as well as environmental management strategies adopted by China <ul style="list-style-type: none"> <li>➤ Learn about how the pollution in Zhujiang (Pearl River) Delta affects our country's ecological security.</li> </ul> </li> </ul>	7	<ul style="list-style-type: none"> <li>• Understand the impact of human activities on the ecological environment and our responsibilities, understand the needs of sustainable development, and recognise the necessity of safeguarding ecological security,</li> </ul>

<b>Geography (S4 - S6)</b>		<b>Curriculum Framework of National Security Education in Hong Kong</b>	
<b>Chapter / Topic</b>	<b>Learning Elements</b>	<b>Strand</b>	<b>Learning Elements</b>
the natural environment	➤ Discuss the management strategies and measures adopted by our country to alleviate environmental pollution. Understand our country's efforts and determination to safeguard ecological security, as well as the importance in that regard.		resource security, nuclear security and new security domains

### 3. Suggested learning and teaching activities (examples) (senior secondary)

#### ✧ Project learning

- Teachers can design relevant project learning assignments in accordance with the curriculum, so that students will have deeper understanding of the topics through self-directed learning. For example:
  - **【Link to senior secondary topic: Disappearing Green Canopy — Who should pay for the massive deforestation in rainforest regions?】**  
Initiatives implemented by our country on conservation in recent years
  - **【Link to senior secondary topic: Climate Change — Long-term fluctuation or irreversible trend?】** Our country's role in combating climate change

#### ✧ Mainland study tours

- **【Link to senior secondary topic: Changing Industrial Location – How and why does it change over space and time?】** Field trip and visit to an iron and steel plant in Shanghai. Learn about the location of the iron and steel industry and recognise the importance of resource security.
- **【Link to senior secondary topic: Regional Study of Zhujiang (Pearl River) Delta】** Field trip to Zhujiang (Pearl River) Delta to learn about our country's efforts in pollution control, so as to understand the importance of ecological security.

#### ✧ Cross-curricular collaboration

- Organise a study tour featuring Chinese history, economy and geography with the panels of Chinese History and Economics.

✧ **Quiz competition on “Geography of China”**

- Schools can organise inter-class or inter-house quiz competitions on “Geography of China”, so that students can actively learn about the geographical location, territory, relief and resources of our country, thus having a better understanding of our country.

✧ **Online learning activities**

- Teachers can facilitate students’ self-directed learning with the online resources on the geography of China developed by the Education Bureau (such as PowerPoints, e-books, animations and online games), so that they can have a better understanding of our country. Teachers can also design appropriate self-directed learning activities which are in line with the curriculum aims and objectives to allow students to understand the concern and importance attached by other countries on issues related to homeland security, resource security and ecological security.