

(Syllabus for F.2 Geog. September 2016- July 2017)

SING YIN SECONDARY SCHOOL
SYLLABUS FOR GEOGRAPHY -- SEPTEMBER 2016 - JULY 2017

Form Two

Junior Secondary Exploring Geography 3 The trouble with water	Oxford	Ip Kim Wai, Lam Chi Chung, Wong Kam Fai, Anne Lee
Junior Secondary Exploring Geography 5 Living with natural hazards	Oxford	Ip Kim Wai, Lam Chi Chung, Wong Kam Fai, Anne Lee
Junior Secondary Exploring Geography Workbook 3& 5	Oxford	Ip Kim Wai, Lam Chi Chung, Wong Kam Fai, Anne Lee

Mini School Atlas (Sixth Edition) (optional)

Ling Kee

Students should:

1. appreciate the beauty of nature.
2. appreciate the interdependence between human beings and the natural environment and develop a sense of responsibility to take action in protecting the natural environment.
3. develop an understanding and respect for other people and their ways of life.

No. of Periods	Syllabus Topics	Learning Objectives	Teaching Strategies
23	Living with natural hazards	<ul style="list-style-type: none"> • Are we living in a hostile world? <ul style="list-style-type: none"> - Meaning of natural hazards - Major natural hazards of the world - Global distribution of the major natural hazards 	<ul style="list-style-type: none"> • Introducing the concept of natural hazard and identifying the major natural hazards of the world from photos and videos. • Using GIS tools to find out the world distribution of major natural hazards (earthquakes, tsunamis and volcanic eruptions). • Noting the places where certain natural hazards commonly occur.
		<ul style="list-style-type: none"> • Why do our slopes collapse? <ul style="list-style-type: none"> - Relief of Hong Kong - Different ways to show relief on maps - Meaning of landslides - Factors affecting slope stability - Causes of landslides and their effects in Hong Kong - Ways to prepare for and respond to landslides in Hong Kong <p>Skills: Drawing cross-sections, Finding the vertical exaggeration of cross-sections, Calculating the gradient of a slope from a contour map, Map-reading skills: recognizing</p>	<ul style="list-style-type: none"> • Reading the height of a point marked on a contour map (contour lines, spot heights, trigonometric stations, vertical interval). • Making a contour box and using it to read the relief of land. • Relating the spacing of contour lines to the steepness of the land. • Calculating slope gradient. • Drawing cross-sections from contour maps and recognizing relief features on contour maps. • Identifying the factors affecting slope stability from an experiment shown in the textbook. • Identifying the causes of landslides in Hong Kong from newspaper articles. • Correlating the location and time of occurrence of the recent landslides in

(Syllabus for F.2 Geog. September 2016- July 2017)

		relief features on contour maps, Photo interpretation, Graph interpretation	<p>Hong Kong with climate (particularly the rainfall pattern), rock type and human activities</p> <ul style="list-style-type: none"> • Observing and reporting in the field how hillslopes in Hong Kong's urban areas are used • Establishing visual perception of the effects of landslides in Hong Kong through photos and videos • Discussing in groups the ways to prepare for and respond to landslides • Expressing one's own viewpoints whether hillslope development should be continued in Hong Kong
		<ul style="list-style-type: none"> • Why does most of Asia suffer from strong winds and heavy rain in summer? <ul style="list-style-type: none"> - Climate of South China <ul style="list-style-type: none"> - Monsoon climate - Extreme weather conditions in summer <p>Skills: Reading weather charts, Drawing and interpreting climatic graphs</p>	<ul style="list-style-type: none"> • Distinguishing weather and climate • Collecting weather data from secondary sources • Reading and interpreting weather charts • Constructing climatic graph and describing the temperature and rainfall distribution pattern shown • Identifying the seasonal changes of Hong Kong's climate from climatic data (monsoon climate) • Comparing climatic data using climatic graphs • Identifying the warning signals associated with extreme weather conditions in Hong Kong • Sharing experience under extreme weather conditions especially typhoons and evaluating precautionary measures taken • Organizing a visit to the Hong Kong Observatory for the students to learn more about the weather and climate in Hong Kong
		<ul style="list-style-type: none"> • Why does our land shake violently? <ul style="list-style-type: none"> - Structure of the Earth - Global distribution of earthquakes and its relationship with plate boundaries - Causes of earthquakes and its direct and indirect effects - Ways people prepare for and respond to earthquakes 	<ul style="list-style-type: none"> • Introducing the structure of the Earth through videos • Relating the world distribution of earthquakes to plate boundaries by GIS tools or map overlays. • Searching for the information of recent earthquakes in the world from the internet. • Identifying the causes of earthquakes and its direct and indirect effects from photos, videos and newspaper articles. • Discussing in groups ways to prepare for and respond to earthquakes.

(Syllabus for F.2 Geog. September 2016- July 2017)

		<ul style="list-style-type: none"> • Why are some people more vulnerable to natural hazards than we are? <ul style="list-style-type: none"> - Factors affecting the damage caused by natural hazards - Comparison of the impact of natural hazards and the respective preventive and remedial measures adopted by MDCs and LDCs - Reasons for people choosing to stay in hazard-prone areas 	<ul style="list-style-type: none"> • Using (1) Haiti and New Zealand & (2) Japan and the Philippines as case studies to prepare brief reports on the hazardous effects caused by and their responses to (1) earthquakes & (2) tropical cyclones and presenting the reports in class • Making one's own judgement to decide whether it is wise to live in hazard-prone areas and giving reasons to support one's viewpoints
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No. of Periods	Syllabus Topics	Learning Objectives	Teaching Strategies
23	The trouble with water	<ul style="list-style-type: none"> • What are the major threats to water resources? <ul style="list-style-type: none"> - Major threats to the global water supply 	<ul style="list-style-type: none"> • Identifying the major threats to water resources from photos and other data
		<ul style="list-style-type: none"> • Where does water come from? <ul style="list-style-type: none"> - Meaning and operation of a water cycle - Major rivers and water resources in China - General relief and climate of China and the distribution of wet and dry regions 	<ul style="list-style-type: none"> • Introducing the concept of water cycle. • Drawing simple diagrams to show the operation of a water cycle. • Identifying the major rivers and water resources in China from maps. • Calculating the amount of water resources per capita in China. • Relating the general relief of China to the direction of flow of major rivers • Identifying the climate of China from climatic graphs and diagrams • Relating the monsoon climate of China to the seasonal distribution of water resources in China. • Identifying the major wet and dry regions in China from maps and figures.
		<ul style="list-style-type: none"> • How do water problems affect us? <ul style="list-style-type: none"> - Major water problems in China - Location and spatial pattern of these water problems in China - Impacts of flooding and drought on China - How does serious water pollution in China worsen the water shortage problem of China? 	<ul style="list-style-type: none"> • Identifying the major water problems in China from photos, videos and news articles • Identifying the location and spatial pattern of these water problems in China from maps. • Identifying the impacts of flooding and drought on China from photos and news articles. • Discussing in groups how serious water pollution in China worsens the water shortage problem through interpreting pie charts.

(Syllabus for F.2 Geog. September 2016- July 2017)

		<ul style="list-style-type: none"> • Is the nature to blame? <ul style="list-style-type: none"> - What's wrong with the water cycle of China in the past few decades? - Natural and human causes of flooding and drought in China - Impacts of population growth and rapid economic development on the spatial distribution of flooding, drought and water pollution in China 	<ul style="list-style-type: none"> • Collecting information of China's three water problems from the internet or newspapers in the past several months and summarizing the information collected in a table form. Selecting a recent case of serious flooding or drought in China and listing the causes mentioned in the information found. • Summarizing the natural and human causes of water problems. • Class debate: 'Is the nature to blame in causing the water problems in China?'
		<ul style="list-style-type: none"> • What can be done to solve the water problems in China? <ul style="list-style-type: none"> - Measures adopted to alleviate water problems in China - Can the Three Gorges Dam Project and the South-North Water Transfer Project help solve the problems? Are we doing the right things? 	<ul style="list-style-type: none"> • Collecting information about the Three Gorges Dam Project and the South-North Water Transfer Project in China to prepare brief reports on their background information, advantages brought and problems caused and presenting the reports in class.

Signature of Teacher in charge: _____

Miss Lok Yuen Kwan

Checked by: _____

Miss Liu Pui Ying