

ST. JOSEPH'S COLLEGE

Department of Geography

Secondary 4 (2024-25)

Teaching Syllabus

| C1: Opportunities and Risks – Is it rational to live in hazard-prone areas? | | |
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| Week | Learning and Teaching Focuses | Remarks |
| Sep | 0. Introduction <ul style="list-style-type: none">- NSS curriculum- Physical Geography | |
| | 1. Is it rational to live in hazard-prone areas? 1.1 Why is our earth unstable? <ul style="list-style-type: none">● Structure of the earth : 7 continents + 5 oceans 1.2 What are the internal forces and processes affecting the earth? What are the resultant landforms/ features? <ul style="list-style-type: none">● Internal forces: compressional force, tensional force and shearing force● Internal processes: folding, faulting, volcanism● Resultant landforms/ features 1.3 What are the landforms found at the plate boundaries? <ul style="list-style-type: none">● Plate tectonic theory – 3 types of plate margins<ul style="list-style-type: none">■ Constructive plate boundaries + landform features■ Destructive plate boundaries + landform features■ Conservative plate boundaries + landform features● Major landform features at plate boundaries (fold mountain, island arc, ocean trench, volcano, mid-oceanic ridge and rift valley) | |

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| Oct | <p>1.4 How do plate movements create tectonic hazards? (Case Studies)</p> <ul style="list-style-type: none"> ● Earthquakes ● Volcanic Eruption <p>1.5 What destruction do tectonic hazards cause? How can we deal with them?</p> | |
| Nov | <p>1.4 How do plate movements create tectonic hazards? (Continue)</p> <ul style="list-style-type: none"> ● Tsunami <p>1.5 What destruction do tectonic hazards cause? How can we deal with them? (Continue)</p> <p>1.6 Is it rational to choose to live in hazard-prone areas?</p> <ul style="list-style-type: none"> ● How do endogenetic process affect human beings/ MDCs and LDCs? ● What are the pros and cons of people living in hazard-prone areas | |
| | <p>2. Managing River Environment</p> <p>2.1 Introduction of water cycle and river basin</p> | |
| Dec | <p>Half-Yearly Examination</p> <p>Christmas Holiday</p> | |

C2: Managing Rivers and Coastal Environments: A continuing challenge

| Week | Learning and Teaching Focuses | Remarks |
|------|---|---|
| Jan | <p>2. Managing River Environment (Continue)</p> <p>2.1 Introduction of water cycle and river basin</p> <p>2.2 What are the major fluvial processes?</p> <p>2.3 How do fluvial processes shape the land?</p> <ul style="list-style-type: none"> ● Features in the upper course ● Features in the middle course ● Features in the lower course ● Comparison between upper, middle & lower courses | <p><u>NSE</u></p> <p>To show photos of river and coastal pollution and guide the students to review the impacts brought by human activities on natural environment</p> <p style="text-align: right;">*ecological security (生態安全)</p> |
| Feb | <p>2.3 How do fluvial processes shape the land? (Continue)</p> <ul style="list-style-type: none"> ● Features in the lower course ● Comparison between upper, middle & lower courses <p>2.4 Managing Coastal Environment</p> <p>How do waves shape our land</p> <ul style="list-style-type: none"> ● Coastal area – wave generation ● Coastal erosional features ● Coastal depositional features | |
| Mar | <p>2.5 People-environment interactions</p> <ul style="list-style-type: none"> ● How do human activities alter river and coastal environment and what are the resulting consequences? ● Examples: drainage, reclamation, and recreation ● Management of river and coastal system: Hard engineering vs. Soft Engineering ● How does management of river and coastal systems pose a continuing challenge for people? | |

C3: Changing Industrial Location – How and why does it change over space and time?

| Week | Learning and Teaching Focuses | Remarks |
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| Apr -May | Changing Industrial Location 3.1 Introduction to industry <ul style="list-style-type: none"> ● Factors affecting location of manufacturing industry 3.2 Manufacturing industry in Hong Kong: Past and Present 3.3.Changing location of the iron and steel industry in China | <u>NSE</u> To demonstrate the distribution of the steel industry in China and introduce the importance of homeland security (國土安全) To stress on the importance of coal and steel industry in China, which constitutes a major part of national security |
| | 3.3Changing location of the iron and steel industry in China (Continue) 3.4Rise of I.T. industry <ul style="list-style-type: none"> ● US I.T. industry ● Hong Kong Science Park and Cyberport | |
| | 3.5Impacts of changing industrial locations and production modes 3.6Measures to alleviate the impacts of industrial relocation | |