St. Francis Xavier's College
Course Outline for F.3 Geography (2026-2027)

List of Textbooks:
(1) Junior Secondary Exploring Geography Book 11 (Elective) – Changing Climate, changing environments (Third Edition) – Oxford
(2) Junior Secondary Exploring Geography Book 10 (Elective) – Taming the sand (Third Edition) – Oxford

Term 1

Time allocation (Cycle & periods required)	Topic	Teaching Objectives	Assignment
Cycle 1-2 (3 periods)	**1.1) What is happening to global climate?** **1.2) What is the climatic pattern of the world?** **1.3) What is the climate of South China?** **1.4) Is the global climate changing?**	- Introduction of Form 3 Geography - Definitions of weather and climate - General climatic pattern of the world - A brief introduction of climate of South China - Map interpretation: Isotherm map, annual precipitation pattern, temperature differences in different periods and changes in annual precipitation - Graph reading : climatic graph, scatter diagram and line graph **Geographical terms / concepts:** Climate/ precipitation/ low-latitude region/ high-latitude region/ weather/ relative humidity/ air pressure/ isotherm/ tropical region/ temperate region/ polar region/ subtropical region/ monsoon climate/ mid-latitude/ rainstorm	Pre-lesson task Worksheet 1: 2-day weather forecast for Hong Kong (HKO) & weather instruments Post-lesson task Revision Worksheets Unit 1

Cycle 3-4 (5 periods)	**2.1) What is causing our climate to change?** **2.2) What is the greenhouse effect?** **2.3) What has led to the increase in the amount of greenhouse gases?**	- Greenhouse and the mechanism of greenhouse Effect - Major types of greenhouse gases - Human factors (e.g. burning fossil fuels, deforestation, farming activities, waste treatment, emission of chlorofluorocarbons from industrial activities) in leading to global warming **Geographical terms / concepts:** Greenhouse effect/ atmosphere/ water vapour/ carbon dioxide/ methane/ greenhouse gas (GHG)/ global warming/ radiation/ chlorofluorocarbon/ nitrous oxide/ fossil fuel/ deforestation/ incinerator/ landfill	Pre-lesson task Worksheet 2: What is the greenhouse effect? Post-lesson task Revision Worksheets Unit 2
Cycle 5-7 (6 periods)	**3.1) What are the effects of climate change?** **3.2) What are the possible benefits of climate change?** **3.3) How does climate change affect China?**	- Possible benefits and harmful effects of climate change - Case study: Tuvalu - Effects of climate change in China - How climate change affects blizzards in China **Geographical terms / concepts:** Glacier/ ice sheet/ meltwater/ iceberg/ meteorological hazard/ typhoon/ blizzard/ condensation/ evaporation/ storm surge/ desertification/ heat wave/ wildfire/ pest/ habitat/ ecological balance/ coral bleaching/ biodiversity	Pre-lesson task Worksheet 3: What are the impacts brought by global warming? Post-lesson task Revision Worksheets Unit 3
Cycle 8-9 (4 periods)	**4.1) What is happening in Hong Kong?** **4.2) What are the causes of the changing climate in Hong Kong?** **4.3) What are the possible effects of climate change in Hong Kong?**	- Evidence showing our climate is changing at local scale (Hong Kong) - Natural and human causes of the changing climate in Hong Kong - Consequences of climate change in Hong Kong **Geographical terms / concepts:** Thunderstorm/ heat island/ transpiration	Pre-lesson task Worksheet 4: Climate change, none of our Hong Kong's business? Post-lesson task Revision Worksheets Unit 4
Exam Period + Discussion of Paper			

Term 2

Cycle 11-12 (4 periods)	**5.1) What can we do about it?** **5.2) Why is international cooperation in combating climate change difficult?** **5.3) What should we do as individuals to combat climate change?**	- Mitigation and adaptation measures taken by different countries to combat climate change - A brief review of the difficulties in international cooperation in combating climate change - Mitigation and adaptation measures taken by individuals to combat climate change **Geographical terms / concepts:** Carbon neutrality/ energy efficiency/ renewable energy resource/ solar power/ wind power/ recycling/ carbon sink/ more developed country (MDC)/ less developed country	Pre-lesson task Worksheet 5: Trend of waste sorting in China Post-lesson task Revision Worksheets Unit 5
Cycle 13-15 (4 periods)	**1.1) What are deserts?** **1.2) Where are deserts?** **1.3) What are the characteristics of desert?**	- Global distribution of tropical and temperate deserts - Major deserts in the world - Characteristics of deserts **Geographical terms / concepts:** Desert/ atmosphere/ annual precipitation/ Tropic of Cancer/ Tropic of Capricorn/ latitudes/ tropical desert/ temperate desert/ moisture/ daily range of temperature/ scarce/ evaporation rate/ sand dune/ groundwater/ oasis	Pre-lesson task Worksheet 6: Causes of desertification Post-lesson task Revision Worksheets Unit 6

Cycle 15-17 (4 periods)	**2.1) What is desertification?** **2.2) Where are the major desertified areas in the world?** **2.3) Which region in China is facing a risk of desertification?** **2.4) What are the physical and human causes of desertification in northern China?**	- Definition of desertification - Major desertified areas in the world - Distribution pattern of desertification-prone areas in China - Causes of desertification in northern China - Impacts of desertification on people and natural environment in northern China **Geographical terms / concepts:** Desertification/ dryland/ savanna/ productivity/ land degradation/ soil erosion/ soil fertility/ sparse vegetation/ overgrazing/ carrying capacity/ over-cultivation/ deforestation/ relative humidity/ drought/ evapotranspiration/ sandstorm/ dust storm	Pre-lesson task Worksheet 7: Discover more about deserts Post-lesson task Revision Worksheets Unit 7
Cycle 18-20 (4 periods)	**4.1) What has happened to the area of desertified in northern China in recent years** **4.2) What has been done to keep desertification in check?**	- Changes in desertified land in China in recent years - Mitigation and adaptation measures taken by the Central government to combat desertification **Geographical terms / concepts:** Windbreak/ shelter belt/ afforestation/ straw checkerboard/ rotational grazing/ biodiversity/ drip irrigation/ drought-resistant crop/ reforested area/ cash crop/ agribusiness/ ecotourism	Pre-lesson task Worksheet 8: China desertification control achievement Post-lesson task Revision Worksheets Unit 8
	4.1) What has happened to the area of desertified in northern China in recent years? **4.2) What has been done to keep desertification in check?** **5.1) What can we learn from the experience of the Sahel?** **5.3) What are the differences between the strategies**	- Changes in desertified land in China in recent years - Mitigation and adaptation measures taken by the Central government to combat desertification - Causes of desertification and measures to combat the problem in the Sahel - Differences between the strategies adopted by LDCs and MDCs in combating desertification	

	adopted by LDCs and MDCs in combating desertification?	**Geographical terms / concepts:** Windbreak/ shelter belt/ afforestation/ straw checkerboard/ rotational grazing/ biodiversity/ drip irrigation/ drought-resistant crop/ reforested area/ cash crop/ agribusiness/ ecotourism/ famine/ stone bund/ earth bund/ mulching/ compost/ ecosystem/ fallow/ less developed country/ more developed country	

Assignments:

- Revision Worksheets will be marked after every Unit.
- Additional MC questions, Data-Based questions will be used for training students before the examination.

Assessment Mode and Weighting:

Form 3		
1st Term	□	10% Assignments + 10% Regular Test + 10% Classroom Performance + 70% Exam
2nd Term	□	10% Assignments + 10% Regular Test + 10% Classroom Performance + 70% Exam