

**St. Francis Xavier's College**  
 NSS Geography  
Reminders for S5 students in 2024-2025

**Assessment Mode and Weighting:**

<b>Form 5</b>	
1 <sup>st</sup> Term	<ul style="list-style-type: none"> <li>➤ 10% RT</li> <li>➤ 10% Assignments</li> <li>➤ 10% Classroom performance</li> <li>➤ 70% First Term Examination</li> </ul>
2 <sup>nd</sup> Term	<ul style="list-style-type: none"> <li>➤ 10% RT</li> <li>➤ 10% Assignments</li> <li>➤ 10% Classroom performance</li> <li>➤ 70% First Term Examination</li> </ul>

Cycle	Date	Unit	Teaching Objectives	Assignment
1	<b>Oxford NSS Geography Book 6 – Weather and Climate</b>			
	3 Sept – 13 Sept	<b>Unit 9.1</b>	<ul style="list-style-type: none"> <li>- Concept of solar radiation</li> <li>- What happens when solar radiation reaches the earth</li> <li>- Energy transfer from the earth's surface to the atmosphere</li> <li>- Energy budget of the atmosphere</li> <li>- Factors affecting the amount of insolation received on the earth's surface               <ul style="list-style-type: none"> <li>▪ Angle of the sun:                   <ul style="list-style-type: none"> <li>➤ Latitude</li> <li>➤ Time of day</li> <li>➤ Season</li> </ul> </li> <li>▪ Duration of daylight</li> <li>▪ The atmosphere</li> <li>▪ Albedo</li> </ul> </li> </ul>	Revision Exercises MCs Past Paper Exercises DBQ
2	16 Sept – 25 Sept	<b>Unit 9.2</b>	<ul style="list-style-type: none"> <li>- World distribution pattern of air temperature</li> <li>- Factors affecting temperature patterns               <ul style="list-style-type: none"> <li>▪ Insolation</li> <li>▪ Land and sea</li> <li>▪ Ocean currents</li> <li>▪ Winds</li> <li>▪ Altitude</li> <li>▪ Aspect</li> </ul> </li> </ul>	
3	26 Sept – 7 Oct	<b>Unit 9.3</b>	<ul style="list-style-type: none"> <li>- Factors affecting air pressure               <ul style="list-style-type: none"> <li>▪ Altitudes</li> <li>▪ Air temperature</li> </ul> </li> <li>- Major air pressure belts               <ul style="list-style-type: none"> <li>▪ Equatorial low</li> <li>▪ Subtropical highs</li> <li>▪ Polar highs</li> <li>▪ Subpolar lows</li> </ul> </li> <li>- How air pressure and winds are related</li> <li>- How the earth's rotation affects winds</li> </ul>	

			<ul style="list-style-type: none"> <li>- Planetary wind system: <ul style="list-style-type: none"> <li>▪ Polar easterlies</li> <li>▪ Westerlies</li> <li>▪ Trade winds</li> </ul> </li> <li>- How air pressure belts and wind belts shift with the seasons</li> <li>- Tri-cellular model of atmospheric circulation</li> <li>- World pattern of air pressure belts and wind</li> </ul>
4	8 Oct - 17 Oct	<b>Unit 9.4</b>	<ul style="list-style-type: none"> <li>- Processes leading to the formation of rain: <ul style="list-style-type: none"> <li>▪ Evapotranspiration</li> <li>▪ Saturation and condensation</li> <li>▪ Precipitation</li> </ul> </li> <li>- Types of rain: <ul style="list-style-type: none"> <li>▪ Relief rain</li> <li>▪ Convection rain</li> <li>▪ Frontal rain</li> </ul> </li> <li>- Factors affecting precipitation: <ul style="list-style-type: none"> <li>▪ Moisture availability</li> <li>▪ Water-holding capacity of the air</li> <li>▪ Air-rising mechanism</li> </ul> </li> <li>- World distribution pattern of precipitation: <ul style="list-style-type: none"> <li>▪ Annual distribution</li> <li>▪ Seasonal distribution</li> </ul> </li> </ul>
5	18 Oct – 29 Oct	<b>Unit 9.5</b>	<ul style="list-style-type: none"> <li>- Major global climatic zones: <ul style="list-style-type: none"> <li>▪ Equatorial climate</li> <li>▪ Tropical wet and dry climate</li> <li>▪ Arid climate</li> <li>▪ Semi-arid climate</li> <li>▪ Temperate climate</li> <li>❖ Humid subtropical and marine west coast climate</li> <li>❖ Mediterranean climate</li> <li>▪ Cold climate</li> <li>▪ Polar/Tundra climate</li> </ul> </li> </ul>
6	30 Oct – 12 Nov	<b>Unit 9.6</b> <b>Unit 9.7</b>	<ul style="list-style-type: none"> <li>- Distribution patterns of air temperature in China</li> <li>- Distribution pattern of precipitation in China</li> <li>- Climatic zones in China</li> <li>- Factors shaping the climate of China: <ul style="list-style-type: none"> <li>▪ Latitude and insolation</li> <li>▪ Distance from the sea</li> <li>▪ Monsoon system</li> <li>▪ Relief</li> </ul> </li> <li>- Weather conditions associated with a cold front</li> <li>- How typhoons form, grow, move and dissipate</li> <li>- Weather conditions associated with typhoons</li> <li>- Weather hazards in China</li> <li>- Drought problems in North China: <ul style="list-style-type: none"> <li>▪ Definition of drought</li> <li>▪ Areas under threat of drought</li> <li>▪ Negative impacts of drought on the society, economic and</li> </ul> </li> </ul>

			<p>environment</p> <ul style="list-style-type: none"> <li>- Natural and human factors for drought in North China: <ul style="list-style-type: none"> <li>▪ The variability of monsoon rainfall</li> <li>▪ Large amount of evaporation</li> <li>▪ High water consumption</li> <li>▪ Water pollution</li> <li>▪ Poor management of water resources</li> <li>▪ Deforestation</li> <li>▪ Human-induced climate change</li> </ul> </li> <li>- Measures to combat drought in North China: <ul style="list-style-type: none"> <li>▪ Increase water supply <ul style="list-style-type: none"> <li>❖ Implementing water transfer projects</li> <li>❖ Finding other sources of water</li> <li>❖ Reducing water pollution</li> </ul> </li> <li>▪ Reduce water demand: <ul style="list-style-type: none"> <li>❖ Improving farming methods</li> <li>❖ Increasing awareness of water conservation</li> </ul> </li> <li>▪ New problems brought by these measures: <ul style="list-style-type: none"> <li>❖ Huge cost involved</li> <li>❖ Negative impacts on the Chang Jiang</li> <li>❖ Specific problems from the three water diversion routes</li> </ul> </li> </ul> </li> </ul>	
7	13 Nov – 21 Nov	<b>Oxford NSS Geography Book 3 Chapter 7</b> <b>Climate change – Long-term fluctuation or irreversible trend?</b>		
		<b>Unit 7.1</b> <b>Unit 7.2</b> <b>Unit 7.3</b>	<ul style="list-style-type: none"> <li>- Definition of ‘weather’ and ‘climate’</li> <li>- A brief introduction of climate at local, national and global scale</li> <li>- Evidence showing our climate is changing all over the world</li> <li>- Greenhouse Effect: the mechanism and the role of human activities (e.g. deforestation, burning of fossil fuels, garbage burning, emission of chlorofluorocarbons, agriculture) in enhancing the process</li> <li>- Natural and human causes of global warming</li> <li>- Supporting and opposing arguments for global warming is an irreversible trend</li> </ul>	Revision Exercises DBQ Past Paper Exercises DBQ
8	22 Nov – 4 Dec	<b>Unit 7.4</b>	<ul style="list-style-type: none"> <li>- Consequences of climate change, focusing on winners and losers around the world, e.g. impact on sea level, flood frequency, new farming opportunities, health risks, climatic prediction becoming more difficult, and extreme weather events</li> <li>- National security education: Understand the interdependent relationship between organisms and their environment (Strand 7)</li> </ul>	
9-10	5 Dec – 19 Dec	<b>Unit 7.5</b> <b>Unit 7.6</b>	<ul style="list-style-type: none"> <li>- Mitigation and adaptation measures at local and global levels</li> <li>- A brief review of the complexities of reaching a global agreement, in particular the conflicting</li> <li>- Urban growth and development leading to local variations in climate, focusing on heat island effect</li> <li>- Effects of urban growth and development on microclimate, in terms of atmospheric composition, temperature, sunshine, precipitation, humidity and wind</li> <li>- Observed climate change in Hong Kong</li> </ul>	

			- National security education: Understand the importance of resource conservation and put these into practice in daily life (Strand 7)	
/	3 Jan – 16 Jan	<b>EXAM BUFFER AND FIRST TERM EXAMINATION</b>		

10	<b>Oxford NSS Geography Book 3 Chapter 5 - Combating Famine – Is technology a panacea for food shortage?</b>			
	17 Jan – 22 Jan	<b>Unit 5.1</b> <b>Unit 5.2</b>	<ul style="list-style-type: none"> <li>- The global food situation and distribution pattern</li> <li>- Relationship between food security and famine</li> <li>- Definition of famine</li> <li>- Causes of famine in relation to economic, technological, social and physical conditions</li> <li>- Distribution of famine-prone regions</li> <li>- Components of farming system</li> <li>- Types of agriculture</li> <li>- Factors affecting agriculture</li> </ul>	Revision Exercises DBQ  Past Paper Exercises DBQ
11	23 Jan – 12 Feb	<b>Unit 5.3</b>	<ul style="list-style-type: none"> <li>- Location of the Sahel</li> <li>- Characteristics of the physical environments of the Sahel in particular climate, relief, drainage, soils and vegetation cover and socio-economic factors of the Sahel</li> <li>- Agricultural characteristics of nomadic farming in the Sahel</li> <li>- Physical and human factors that cause famine in the Sahel</li> </ul>	
12	13 Feb – 21 Feb	<b>Unit 5.4</b>	<ul style="list-style-type: none"> <li>- Location of Southern California</li> <li>- Characteristics of the physical environments of Southern California in particular climate, relief, drainage, soils and vegetation cover and socio-economic factors of Southern California</li> <li>- Farming constraints in Southern California</li> <li>- Modern farming methods, e.g. the use of chemicals, irrigation, drainage and their effects on farming yields s taken by farmers in Southern California with a specific focus on the differences in their technological, economic, political and socio-cultural aspects</li> <li>- A brief overview of the possible environmental, economic and social (including health) implications of genetically modified food</li> <li>- Characteristics of the farming system in Southern California and the diminishing role of physical factors in influencing agriculture, particularly in more developed areas</li> <li>- Factors affecting agricultural characteristics in Sahel and Southern California, emphasizing how the same set of factors operates so differently in creating such variation</li> </ul>	
13	25 Feb – 5 Mar			

14	6 Mar – 18 Mar	<b>Unit 5.5</b>	<ul style="list-style-type: none"> <li>- Consequences of misuse and overuse of agricultural technology, e.g. reduction of biodiversity, habitat loss, land degradation, soil erosion, chemical pollution of land and water courses, and the impact on the rural landscape</li> <li>- Measures taken to ensure sustainable agricultural development, e.g. multiple cropping, water and soil conservation methods, and organic farming</li> <li>- National security education: Understand the needs of sustainable development (Strand 7)</li> </ul>	
15	19 Mar – 27 Mar	<b>Unit 5.6</b>	<ul style="list-style-type: none"> <li>- Ways to reduce the risk of famine and enhance the food security</li> <li>- Essay-writing teaching</li> <li>- National security education: Understand the importance of resource conservation and put these into practice in daily life (Strand 7)</li> </ul>	
16	<b>Oxford NSS Geography Book 2 Chapter 3</b>			
	<b>Changing industrial location – How and why does it change over space and time?</b>			
	31 Mar – 9 Apr	Unit 3.1 Unit 3.2	<ul style="list-style-type: none"> <li>- Location of Hong Kong manufacturing industry in the past decades (1950s– 1970s)</li> <li>- Relocation of the Hong Kong manufacturing industries to the Zhujiang (Pearl River) Delta Region – name and locate the major manufacturing centres in the region</li> <li>- Distribution pattern of the iron and steel industry in China</li> <li>- Major factors affecting the location of industry, e.g. raw materials, power, market, labour, technology, transport, government policy and land</li> </ul>	Revision Exercises DBQ  Past Paper Exercises DBQ
17	10 Apr – 30 Apr	Unit 3.3	<ul style="list-style-type: none"> <li>- Factors affecting the location of the iron and steel industry in China, with a specific focus on government policy</li> <li>- Changing location of the iron and steel industry in China, including the shift from the coast to the interior and the tendency to be located near large urban centres</li> <li>- Role of technology and other factors, especially government policy in leading to such changes</li> <li>- Reasons for industrial inertia in the iron and steel industry</li> </ul>	
18	2 May – 13 May	Unit 3.4	<ul style="list-style-type: none"> <li>- Location of the US IT industry</li> <li>- Factors affecting the location of the US IT industry, especially research and development, labour quality and agglomeration economies</li> </ul>	
19	14 May – 27 May		<ul style="list-style-type: none"> <li>- Multi-point and transnational production in the IT industry</li> <li>- The effect of globalisation and technological advances on its location and mode of production</li> <li>- National security education: Analyse how our country's participation in international affairs affects the development of our country (Strand 7)</li> </ul>	

20	28 May – 5 Jun	Unit 3.5	<p>- Impact of changes in industrial location and mode of production, e.g. flow of technology, changes in employment structure, impact on economy, etc.</p> <p>- Measures taken to alleviate the problems caused by this changing mode of production and changes in industrial location, e.g. retraining of labour, an improved social security system, and the development of other industrial / economic sectors</p> <p>- Effectiveness of these measures and problems encountered when carrying them out</p>	
/	/	<b>EXAM BUFFER AND FINAL EXAMINATION</b>		