YISHUN SECONDARY SCHOOL
Subject & Code: 2260
Level & Stream: Sec 3 (Express) – 2023

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment
Term 1 Wk 1	• Back-to-school programme • Setting expectations	

Term 1 Wk 2	Key Question
	 • What is the relationship between people and nature in their neighbourhoods?
	
	 Content Activity
	 • Conducting of questionnaire survey
	   o Analysing peoples' experiences with their neighbourhood
	 • Mental map
	   o Identifying places of nature areas in the neighbourhood
	 • Online research on positive/negative interactions of nature and people in neighbourhoods in Singapore
	 • Classroom sharing on findings from own observations of human-nature interactions to prove hypothesis
		Learning Outcome(s)
		 • Relationship between people and nature
		 • Benefits enjoyed by people and nature
		 • Disadvantages to people and nature
		
		 Skill Focus
		 • Conducting of questionnaire survey
		 • Online research using PLDs
		 • Crafting of hypothesis
		   o To find out on possible positive/negative human-nature interactions
		 • Presentation skills
		   o To present findings from own observations of human-nature interactions to prove hypothesis

Term 1 Wks 3 – 4	CHINESE NEW YEAR (21st – 23rd January 2023) 19th January 2023 – School's celebration	

	Key Question
	 • How do people acquire a sense of place in their neighbourhoods?
	
	 Content Activity
	 • Mental map
	   o Identifying places of fond memories in school
	   o Focusing on elements that make up that sense of place of fond memories in school
	   o Creating a video that highlights a memorable place in school
		Learning Outcome(s)
		 • A deeper understanding of what is meant by a sense of place
		 • Acquring a sense of place in school
		
		 Skill Focus
		 • Presentation skills
		   o To present video and explain why that is considered a sense of place

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment
Term 1 Wks 5 – 6	Key Question • What is the relationship between locations in a neighbourhood? Content Activity • Sensory walk to investigate and represent spatial patterns at Chong Pang	Learning Outcome(s) Students will understand: • Regions • Spatial patterns • Spatial associations Skill Focus • Data representation of data collected to show patterns and associations
Term 1 Wks 7 – 8	Key Question • How are neighbourhoods organised in Singapore? Content Activity • Analysing street directories or Geospatial Technologies (MOE EduGIS) to compare the layout of these estates	Learning Outcome(s) Students will understand: • Spatial scales in Singapore • Spatial hierarchies in Singapore • Town planning in Singapore Skill Focus • Analysing street directories or Geospatial Technologies (MOE EduGIS) • Comparison of different reasons for the various layouts of neighbourhood in Singapore (e.g. Bukit Merah vs Sengkang)
Term 1 Wk 9	Key Question • What are sustainable urban neighbourhood? Content Activity • Identifying and analysing efforts made in neighbourhood to encourage sustainable living • Research on articles that highlights efforts made to make Singapore a more sustainable place to live	Learning Outcome(s) Students will understand: • Sustainable development • Economic and social sustainability in urban neighbourhoods • Environmental sustainability in urban neighbourhood Skill Focus • Annotating on photograph to show key aspects of sustainable living in neighbourhood • Comparison of different features seen in mature and non-mature estates • Presentation of information collected from research on articles that highlights efforts made to make Singapore a more sustainable place to live

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment
Term 1 Wk 10	• Revision for WA1/Buffer Week • WA1	
March Holidays (13th March 2023 – 19th March 2023)		

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Term 2 Wk 1	• Buffer Week • Going through of WA1 • Holiday Assignment	• Error analysis of WA1 • Error analysis of holiday assignment
Term 2 Wk 2	Key Question • What ecosystem services are found in urban neighbourhoods? Content Activity • Investigate regulating services by researching on flooding in the Orchard area and identify measures taken to mitigate the efforts of future flooding in the area	Learning Outcome(s) Students will learn and understand: • Urban neighbourhoods as ecosystems • Provisioning and regulating services • Cultural and supporting services Skill Focus • Internet research on Orchard flooding
Term 2 Wk 3	Key Question • What are common hazards in urban neighbourhoods? Content Activity • Identifying fire, air pollution and traffic hazards in the school's compound	Learning Outcome(s) Students will learn and understand: • Fire hazards in neighbourhood • Air pollution hazards • Traffic hazards Skill Focus • Annotate on photograph depicting fire, air pollution and traffic hazards in their neighbourhood • Suggest reasons to educate residents and possible ways to reduce these hazards
Term 2 Wk 4	• WA2	
	Key Question • How to build sustainable urban neighbourhoods? Content Activity • Identifying an area in school where students can nurture Eco Stewardship • In groups, students will write a proposal to School Principal highlighting the different elements of Eco Stewardship and why proposed area will be able to help to so	Learning Outcome(s) Students will learn and understand: • Environmental stewardship • Disaster risk management • Community resilience Skill Focus • Analysing and justifying reasons for an area where students can nurture Eco Stewardship • Proposal writing

Term 2 Wk 5	Key Question • How to design fieldwork? Content Activity • Using the school's context, identify a research area that can help the school improve in terms of sustainable development	Learning Outcome(s) Students will understand: • What are research questions and hypotheses • Data collection sequence through primary and/or secondary sources • Limitations and risks during data collection Skill Focus • Crafting of hypothesis • Data collection
Term 2 Wk 6	Hari Raya Puasa School Holiday (24th April 2023) YSS Learning Fest (25th – 27th April 2023)	
Term 2 Wk 7	Key Question • How to collect primary data?	Learning Outcome(s) Students will understand: • What are the different sampling methods • Closed-ended questionnaire surveys • Mental maps Skill Focus • Data Response Questions ○ Describe and explain data • Annotate diagrams
	• Going through of WA2	• Error Analysis of WA2

Term 2 Wk 8	Key Question
	• How to process and analyse data?
		Learning Outcome(s)
		Students will understand:
		• Closed-ended questionnaire surveys – how to interpret responses using measures of frequency including counts and percentages
		• How to interpret responses using measures of central tendency including mean, mode and median
		• Mental maps
		  ○ How maps represent reality
		  ○ How features and labels are drawn or added
		• Patterns and relationships
		• Visualizing positive and negative correlations using scatter plots and best-fit lines

	Cross Country (12th May 2023)	
Term 2 Wks 9 – 10	Key Question • How to present findings?	Learning Outcome(s) Students will learn and understand:

		- How maps can represent spatial information - using graphs such as pie charts and bar graphs to show distributions - photographs and texts - e.g. use of satellite and aerial images to display spatial information use of colour-coded quotations and word clouds to represent qualitative analyses

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment

Term 3 Wks 1	Key Question
	• What is weather and climate?
	
	Content Activity
	• Compare weather and climate
	• Identify various weather elements
		Learning outcomes
		Students will learn and understand:
		• Weather
		• Climate
		• Climate hazards and its impacts on human
		• The characteristic of tropical equatorial, tropical monsoon and cool temperate climatic types.
		
		Skill Focus
		• Data Response Questions
		  ○ Analysis of tables to determine relationship of variables
		  ○ Calculation of mean temperature and temperature range

Term 3 Wk 2	Key Question • Why does air temperature vary across Earth's surface?	Learning outcomes Students will learn and understand: • Earth's rotation and revolution • Latitude and altitude in affecting temperature • Nature of surfaces and distance from sea Skill Focus • Data Response Questions ○ Describe and explain data
	Key Question • Why does precipitation vary across Earth's surface?	Learning outcomes Students will learn and understand: • Water cycle • Relative humidity • Clouds and precipitation Skill Focus • Annotate convectional and relief rainfall diagrams • Data Response Questions ○ Describe and explain data
Term 3 Wk 3	Key Question • Why does wind direction and wind speed vary across Earth's surface?	Learning outcomes Students will learn and understand: • Unequal distribution of air temperature • Wind speed

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment
		• Local and regional wind Skill Focus • Annotate local and regional wind diagrams • Data Response Questions ○ Describe and explain data
	Key Question • What is the natural variability of climate?	Learning outcomes Students will learn and understand: • Evidence of past climates • Changing climate zones • Climate variability due to natural processes Skills Focus • Structured Essay Question
Term 3 Wk 4	Key Question • How do anthropogenic factors contribute to climate change? Content Activity • Inquiry Question: Are humans to blame for climate change or is it a natural event?	Learning outcomes Students will learn and understand: • Growth in population and industrialization • Causes of the greenhouse effect • Causes of the enhanced greenhouse effect Skills Focus • Structured Essay Question • Data Response Questions ○ Describe and explain data
Term 3 Wk 5	Key Question • How might climate change affect natural systems?	Learning outcomes Students will learn and understand: • Impact of climate change on natural systems • Impact of climate change on aquatic ecosystems • Impact of climate change on terrestrial ecosystems
	Key Question • How might climate change affect human systems?	Learning outcomes Students will learn and understand: • Impact of climate change on human systems • Direct impact of climate change on human systems

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment
		• Indirect impact of climate change on human systems
Term 3 Week 6	Key Question • How does climate action help achieve sustainable development?	Learning outcomes Students will learn and understand: • Climate action • Climate change is a threat multiplier • Climate change constrains development path
	Key Question • Why do climate risks vary across places?	Learning outcomes Students will learn and understand: • Climate risks • Affected by climate-related hazards • Affected by vulnerability and exposure
Term 3 Wk 7	• Buffer Week	
Term 3 Wk 8	Key Question • How effective are mitigation strategies in building community resilience to climate change?	Learning outcomes Students will learn and understand: • Mitigation strategies • Mitigation strategies that reduce greenhouse gas emissions • Mitigation strategies that enhance carbon sinks
Term 3 Wk 9	Key Question • How effective are adaptation strategies in building community resilience to climate change?	Learning outcomes Students will learn and understand: • Adaptation strategies • Adaptation strategies with structural and technological approaches • Adaptation strategies with social and institutional approaches
Term 3 Wk 10	• Buffer Week • Intensive Revision to EOY	

Term / Week	Learning Experiences (Chapter & Activity)	Learning Outcomes & Assessment
Term 4 Wks 1-3	EOY Revision	
4-5	End of Year Examination	
6	Script-checking	

*All information is correct at the time of publication and may be subjected to change.