

National Junior College SH1 Promotional Examinations for General Certificate of Education Advanced Level Higher 2

GEOGRAPHY

9173/01

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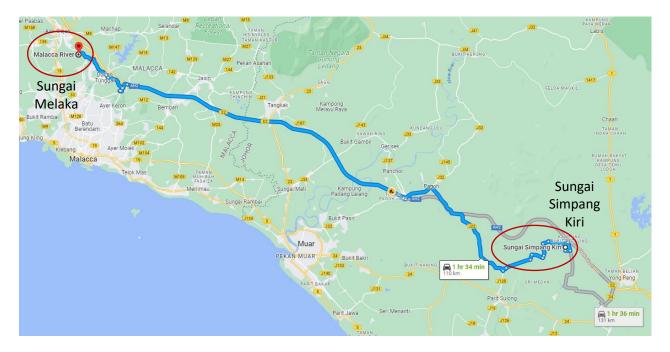
26 September 2023

3 hours

READ THESE INSTRUCTIONS FIRST

This Insert contains all the Resources referred to in the questions.

Resource 1 for Question 1



Map showing locations of Sungai Melaka and Sungai Simpang Kiri

Resource 2A for Question 1

Photograph of Sungai Melaka



Resource 2B for Question 1

Photograph of Sungai Simpang Kiri



Resource 3 for Question 1

Questionnaire used by the students for data collection

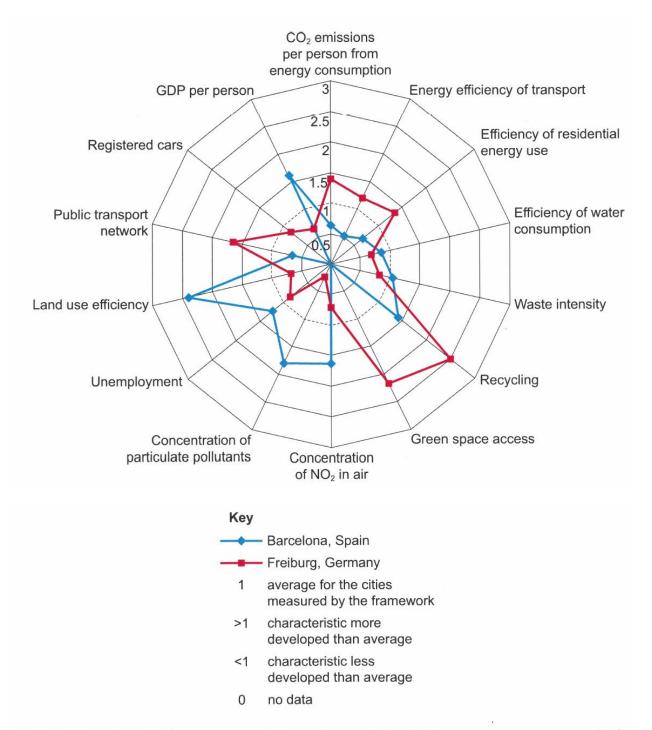
1.	How many years have you lived/worked here?		
2.	How old are you?		
3.	 What is the risk of floods in this area? No risk Low risk Medium risk High risk 		
4.	 How often does the river flood? At least once every month At least once in 6 months At least once a year Never 		
5.	How is flood risk reduced in the area?		
6.	Do you feel vulnerable to flood risk? • Yes • No		
7.	From 1-10, rate your adaptive capacity.		
8.	How severe have the floods here been?		
9.	 Do you know what to do to evacuate when there is a flood? Yes No 		
. Wł	nich months of the year do the floods usually occur?		

Resource 4 for Question 1

Responses tabulated from the	question "What is	the risk of floods in this area?"

Sungai Melak	а	Sungai Simpang	Kiri
Respondent number	Response	Respondent number	Response
1	High risk	11	Medium risk
2	Medium risk	12	High risk
3	High risk	13	Low risk
4	Medium risk	14	Low risk
5	Low risk	15	Medium risk
6	High risk	16	High risk
7	Medium risk	17	Medium risk
8	Low risk	18	Low risk
9	High risk	19	Low risk
10	Medium risk	20	Medium risk

Resource 5 for Question 2



Urban Metabolism Framework performance of two selected cities in 2015

The Urban Metabolism Framework was developed by the European Environment Agency (EEA). It is a low-cost monitoring measure for cities comprising 14 characteristics, using easily available data sources.

Resource 6 for Question 2

News excerpt on Freiburg, Germany

Freiburg: Germany's futuristic city set in a forest

This picture-perfect medieval city is celebrating its 900th anniversary, but its innovative design makes it one of the world's most sustainable and liveable cities.

With 400km of bike paths and twice as many bikes as cars, Freiburg is a cyclists' paradise. This intentional design can be traced back to the post-war period. While other German cities were focusing on rebuilding modern cities that put cars at the centre of future transport, planners in Freiburg took a different approach, centering their designs around public transport, thus widening the streets to accommodate trams and bike lanes, including large pedestrian zones. And at a time when much of Germany was building wide highways and sprawling car parks, Freiburg launched its first urban transport policy in 1969 focusing on environmentally-friendly modes of travel.

On match days, a sea of football fans travel along the FR1 (bicycle priority route) and descend on the 24,000-seat Schwarzwald-Stadion, Germany's first solar-powered football stadium that's home to local heroes SC Freiburg. Since solar panels were fitted to the grandstand roofs in 1993, the stadium has generated 250,000 kilowatt-hours per year, powering the stadium and feeding any excess back into the local grid. Borrowing this design ethos is the much-anticipated new Freiburg Stadium, which is integrating solar panels onto its roof and recycling energy generated from a nearby manufacturing plant to heat the stadium.

Lying just 3km from the city centre, the much-celebrated planned suburban community of Vauban, has a similar environmentally conscious ethos at its heart. Here, civic involvement goes hand in hand with "collective building" – where citizens buy a piece of land together and build an apartment building themselves, instead of individually buying an apartment from a development company – and ambitious environmental policy. All housing adheres to Freiburg's low-energy building standard of 65 kWh/sq m, and the minimal energy that is brought in is generated locally from the wood-chip powered heating systems located in the neighbourhood.

Resource 7 for Question 2

Urban Reimaging in Hamburg, Germany



Hamburg, Germany Revitalising the Waterfront

With its inner city densification strategy, Hamburg has successfully regenerated its waterfront from former derelict docklands into a dynamic mixed-used district for residential, commercial and recreational uses. This new HafenCity was driven by collaborations among urban planners, investors, academic professionals and citizens. The focus on built heritage since its planning stages gives the lively area a blend of tradition and modernity.

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Question 1 Resource 1	© adapted: Map of Sungai Melaka and Sungai Simpang Kiri (N.d.). Retrieved from https://www.google.com/maps						
Question 1 Resource 2A	© adapted: GPSMYCITY Inc. (2023). Malacca River, Melaka. Retrieved from https://www.gpsmycity.com/attractions/malacca-river-1744.html						
Question 1 Resource 2B	© adapted: Photo of Sungai Simpang Kiri (N.d.). Retrieved from https://www.google.com/maps						
Question 1 Resource 3	© Author's Own						
Question 2 Resource 4	© adapted: Indicators for Sustainable Cities; European Commission; http://ec.europa.eu/environment/integration/research/newsalert/pdf/indicators_for_sustainable_cities_IRI2_en.pdf November 2015						
Question 2 Resource 5	© adapted: BBC (2020). Retrieved from https://www.bbc.com/travel/article/20200715-freiburg-germanys-futuristic-city-set-in-a-forest						
Question 2 Resource 6	© Centre for Liveable Cities (n.d.) Retrieved from https://www.clc.gov.sg/docs/default-source/urban-solutions/urb-sol-iss-13-pdfs/9_illustration-lee-kuan- yew-world-city-prize-special-mentions.pdf						