



Province of the  
**EASTERN CAPE**  
EDUCATION

## GRADE 11 RESEARCH 2025


RESEARCH TOPIC	INVESTIGATION OF AVAILABILITY, ACCESSIBILITY, QUALITY AND SUSTAINABLE USE OF FRESH WATER IN MY COMMUNITY
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SUBJECT	:	GEOGRAPHY
CODE	:	GEOG
GRADE	:	11
TERM	:	TWO
DATE OF IMPLEMENTATION	:	MARCH 2025
DATE OF COMPLETION	:	MAY 2025
CAPS WEIGHTING %	:	10
TERM WEIGHTING %	:	25
TOTAL		60

Write a research and investigate the availability, accessibility, quality and sustainable use of freshwater in your community.

RESEARCH TOPIC			
Availability, Accessibility, Quality and Sustainable use of Freshwater in my community.			
The Structure and Layout of your Research may follow the guidelines below.			Marks
1.1.	Cover page	1 A4 Page	5
1.2	Index	1 A4 Page	5
2.	Introduction	Length	10
	<ul style="list-style-type: none"><li>Provide the background to the topic. Discuss the importance of freshwater in East London, its role in daily life, and the current water challenges</li><li>State the reason for researching the topic. Explain why studying water availability, quality, and sustainability is important in East London. Mention issues such as <b>water shortages, pollution, or climate change effects.</b></li></ul>	½ A4 Page	
3.	Research Objectives		10
	<ul style="list-style-type: none"><li>State how in your research you aim to address current water related issues in your community such as:<ul style="list-style-type: none"><li><b>Water availability:</b> How reliable is the freshwater supply?</li><li><b>Accessibility:</b> Do all communities in East London have equal access to clean water?</li><li><b>Water quality:</b> Is the water safe for drinking (diseases)?</li><li><b>Sustainable use:</b> Are residents and businesses using water responsibly?</li><li>Attitude of people towards conservation of water</li><li>Water supply infrastructure etc.</li></ul></li></ul>	½ A4 Page	

4.	<b>Study Area (Background)</b>		
	 <ul style="list-style-type: none"> <li>Describe the location of the area of study.</li> <li>Describe <b>East London's location</b> (latitude/longitude: <b>32.97°S, 27.87°E</b>).</li> <li>Mention <b>Buffalo City Municipality</b> and the local wards affected.</li> </ul> <p><b>Map of Area</b></p> <ul style="list-style-type: none"> <li>Provide a <b>map</b> showing the <b>Buffalo and Nahoon Rivers</b> as major water sources.</li> <li>Insert the map of the study area.</li> <li>Do not draw the map by free hand.</li> <li>Use base map of the study area to trace from the topographic map as base map and be inserted to the A4 sheet paper.</li> <li>A map of the area under study can also be downloaded and cropped from a satellite image.</li> <li>The Map should conform to the conventional colour and shape of the map symbols.</li> <li>The map should contain all the map elements (Map Scale, Map Title, Map Legend, Map Border, North Arrow)</li> </ul>	1 Paragraph A4 size Paper	<b>10</b>
5.	<b>Data Collection</b>		
	<b>5.1 Primary and Secondary Data Collection</b>		
	<ul style="list-style-type: none"> <li>State how primary data will be collected.</li> <li>State the sources of primary and secondary data for your research.</li> <li>Indicate how sampling for primary data will be done.</li> <li>Indicate the tools that will be used to record responses from primary data.</li> <li>Indicate the method of data analysis and interpretation to be used.</li> <li>Primary Data Sources may include interviews, observations from the field, pictures taken by camera etc. For this research task primary data may include interviews about the distance from source, number of litres used per day, what water is used water usage in different neighbourhoods (e.g., suburbs vs. townships). Take photos of water sources, treatment plants, or water storage facilities.</li> </ul>	½ A4 Page	<b>10</b>
	<b>5.2 Secondary data</b> sources may include geography textbooks, geography study guides, handouts, newspaper articles, internet websites, satellite images, topographic maps, orthophoto maps, atlas maps etc. Actual <b>data</b> that may be collected as cited above may include literature notes, graphs, pictures or table information.		



	<b>NB You should cite only the sources of data that you have used in your research.</b>		
6.	<b>Discussion, Data analysis, Data Interpretation.</b>		
	<ul style="list-style-type: none"> <li>Refer to data collected from primary and secondary data sources.</li> <li>Discuss, describe, explain, analyse, interpret and use illustrations and statistics to support your arguments.</li> <li>E.g. <i>bar graphs to illustrate distances travelled to collect water, Tables to illustrate quantity of water collected per day, or pie charts to illustrate Percentage of water use (household, industrial, agricultural).</i></li> <li><b>NB You should cite only the sources of data that you have used in your research.</b></li> <li>Discussions should address the issues of:               <ul style="list-style-type: none"> <li><b>Availability:</b> Is there enough water supply from the rivers and rainfall?</li> <li><b>Accessibility:</b> Do townships and informal settlements receive the same water services as wealthier areas?</li> <li><b>Quality:</b> Are there reports of water contamination or pollution from industries?</li> <li><b>Sustainability:</b> Is water being conserved, or is there wastage?</li> </ul> </li> </ul>	<b>2 Pages</b>	<b>20</b>
7.	<b>Findings and Recommendations</b> <ul style="list-style-type: none"> <li>Provide an evaluation of how your community rates to your findings.</li> <li>Summarize key findings (e.g., <b>water shortages in some areas, pollution risks, infrastructure problems</b>).</li> <li>Provide <b>recommendations</b> on improving water access, conservation, and quality.</li> <li>Recommendations are based on your findings.</li> <li>They should provide the proposals as well as how the community is expected to respond based on the findings.</li> <li>Recommendations may link to your research objectives.</li> </ul>	1 paragraph to ½ A4 Page.	<b>15</b>

8.	<b>Conclusion (Accept / Reject) Hypothesis</b>		
	<ul style="list-style-type: none"> <li>Refer to section 4 (Formulating Hypothesis). Summarise the main points in your findings to determine whether they agree / disagree with the hypothesis you have formulated and decide if your hypothesis is accepted or rejected.</li> <li>State whether your hypothesis was <b>accepted or rejected</b> based on your findings.</li> <li>Summarize the most important points from your research</li> </ul>		5
9.	<b>Bibliography</b>		
	<ul style="list-style-type: none"> <li>Write a bibliography using the Harvard method of referencing.</li> </ul>	1 Page	5
10.	<b>PRESENTATION</b>		
	<ul style="list-style-type: none"> <li>Overall impression of project and steps followed.</li> </ul>		5

Marking Rubric		Name and Surname of Learner.....			
Activities		Marks		Information Required	Length
	Total	Educator	Moderator		
Cover page	5			<ul style="list-style-type: none"> <li>Name &amp; Surname</li> <li>Grade and Class</li> <li>Educator's Name</li> <li>Subject</li> <li>Research Topic:</li> </ul>	1 A4 page
Index	5			Numbers <ul style="list-style-type: none"> <li>Topics</li> <li>Sub-topics</li> <li>Page numbers</li> </ul>	1 A4 page
Introduction	10			<ul style="list-style-type: none"> <li>Discussion on availability, accessibility, quality and sustainable use of freshwater in your community.</li> <li>Reasons for conducting research</li> </ul>	½ A4 page
Research Objectives	10			<ul style="list-style-type: none"> <li>Indication of achievements that the researcher aims to see in the community after the research has been conducted.</li> </ul>	½ A4 page
Study Area				<ul style="list-style-type: none"> <li>Description of the study area</li> </ul>	2 A4 page
Mapping	10			<ul style="list-style-type: none"> <li>Map showing study area</li> <li>Catchment location of Nahoon, Buffalo Rivers ...</li> <li>Annual rainfall description</li> <li>Maps, Satellite images ...</li> </ul>	
Data Collection	10			<ul style="list-style-type: none"> <li>Sources of Primary and Secondary Data.</li> <li>e.g. What water used for</li> </ul>	½ A4 Page
Discussions, Analysis and Interpretation	10 x 2 = 20			<ul style="list-style-type: none"> <li>Discussions on water in the community using data collected ...</li> </ul>	3 Pages
Findings and recommendations.	15			<ul style="list-style-type: none"> <li>Evaluation of information from discussions.</li> <li>Proposing recommendations from findings.</li> </ul>	1 Page
Conclusion	5			<ul style="list-style-type: none"> <li>Summarise main point in the findings.</li> <li>Accept / Reject the hypothesis</li> </ul>	½ Page
Bibliography	5			<ul style="list-style-type: none"> <li>List of References</li> </ul>	1 Page
Presentation	5			Overall impression steps followed	
Total	100				9 -10 A4 pages