



**RESEARCH TASK**

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|----------------------------|----------------------|
| <b>SUBJECT</b>             | <b>GEOGRAPHY</b>     |
| <b>GRADE</b>               | <b>12</b>            |
| <b>TASK</b>                | <b>RESEARCH TASK</b> |
| <b>IMPLEMENTATION DATE</b> | <b>APRIL 2025</b>    |

|  |  |               |              |
|--|--|---------------|--------------|
| <b>Write a research and investigate the contribution of maize production to food security and economic development in your area.</b> |  |               |              |
| <b>RESEARCH TOPIC</b>  |  |               |              |
| Contribution of Sugar Cane to Food Security and Economic Development.  |  |               |              |
| <b>The Structure and Layout of your Research may follow the guidelines below.</b>  |  |               | <b>Marks</b> |
| <b>1.1.</b>  | <b>Cover page</b>  | 1 A4 Page     | <b>3</b>     |
| <b>1.2</b>   | <b>Index</b>   | 1 A4 Page     | <b>4</b>     |
| <b>2.</b>  | <b>Introduction</b>  | <b>Length</b> | <b>8</b>     |
|  | <ul style="list-style-type: none"> <li>Give a brief background about the economic sector to which sugar cane production is classified. State the type of farming methods that are used to produce sugar cane. Outline the byproducts that are produced from sugar cane crop. Briefly state the uses of sugar cane, in South Africa as well as some other parts of the world. Cite main sugar cane producing regions in South Africa. Outline a brief description of the conditions that favor and hinder sugar cane production. Provide an overview of what food security and economic development entails. Enlist the indicators of economic development and food security that will be used in this research to measure the contribution of sugar cane in economic development and food security.</li> </ul> | ½ A4 Page     |              |
| <b>3.</b>  | <b>Research Objectives</b>   |               | <b>8</b>     |
|  | <ul style="list-style-type: none"> <li>State how researching on this topic will help to improve / change / stimulate / capacitate / make awareness / revitalize the methods of sugar cane growing to aspirant growers in South Africa.</li> </ul>  | ½ A4 Page     |              |

|    |  |                              |          |
|----|--|------------------------------|----------|
| 4. | <b>Research Hypothesis</b>   |                              |          |
|    | <ul style="list-style-type: none"> <li>• Hypothesis is an assumption that has not yet been researched and there is no tangible in depth data to prove it yet. A researcher observes and identifies a geographical problem / topic and then makes an assumption based merely on the observation. After data collection, in depth analysis and interpretation the researcher makes findings which may prove the assumption to be correct or incorrect. If findings prove the assumption to be incorrect the hypothesis is rejected. If the findings prove the assumption to be correct the hypothesis is accepted.             <ul style="list-style-type: none"> <li>○ Refer to the background in your introduction and the research topic and generate an assumption about the extent to which sugar cane contributes to food security and economic development in South Africa. At this stage you have not collected data yet to support the statement your hypothesis, it is just an assumption.</li> <li>○ Your hypothesis can be phrased as a statement or in a question.</li> </ul> </li> </ul> | ½ A4 Page                    | <b>8</b> |
| 5. | <b>Study Area</b>  |                              |          |
|    | Describe the geographic area (Province / Municipal Demarcation / District) where the research will be conducted.   | 1 Paragraph<br>A4 size Paper | <b>5</b> |
|    | <ul style="list-style-type: none"> <li>• Include a map of the study area.</li> </ul>   |                              |          |
|    | <p>The area under study should be clearly demarcated on the map.</p> <p>The map must be on scale and should have all map elements (Map Title, map scale, north arrow, neat map border).</p> <p>Maps with current location information may be downloaded from high resolution satellite images obtained from the internet or any other GIS software.</p>  |                              | <b>5</b> |

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|-----|--|-----------|----------|
| 6.  | <b>Research Methodology</b>  |           | <b>7</b> |
| 6.1 | <ul style="list-style-type: none"> <li>• Depending on availability, accessibility of data and size of the Study Area, you may use both Primary and Secondary Data or use Secondary Data only for this research.</li> </ul>   |           |          |
| (a) | <b>Primary Data Collection</b>   |           |          |
|     | <p>State the sources of primary data for your research.</p> <ul style="list-style-type: none"> <li>○ Sources may include interviews, observations from the field, pictures taken by camera etc.</li> <li>○ <b>NB</b> You should only cite the sources of data that will provide specific relevant data for your research for each <b>indicator of economic development, indicator of food security, influencing factors such as topography, climate, etc.</b></li> </ul> <ul style="list-style-type: none"> <li>• Indicate how sampling (number of people to be interviewed) for primary data collection will be done.</li> <li>• Indicate the tools (<b>e.g. questioners</b>) that will be used to record responses from primary data.</li> <li>• Indicate how data will be analysed and interpreted to be used.</li> </ul> | ½ A4 Page |          |

|  |   |                 |  |
|--|---|-----------------|--|
|  | <b>(b) Secondary Data Collection</b>  |                 |  |
|  | <ul style="list-style-type: none"><li>• State sources where secondary data will be collected<ul style="list-style-type: none"><li>○ Sources may include geography textbooks, geography study guides, handouts, newspaper articles, internet websites, satellite images, topographic maps, orthophoto maps, atlas maps etc.</li><li>○ <b>NB You should cite <i>only</i> the sources of data that will be used in your research.</b></li></ul></li><li>• State <b>data</b> to be collected from each secondary data source.<ul style="list-style-type: none"><li>○ Actual <b>data</b> that may be collected may be literature notes, graphs, pictures or table data that provide information about physical and climatic factors such as rainfall, relief, soil, etc. that favor or hinder sugar cane production.</li></ul></li></ul> | <b>½ a Page</b> |  |

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|----|---|----------------|----|
| 7. | <b>Discussion, Data analysis, Data Interpretation.</b>  |                | 14 |
|    | <p><b>7.1</b></p> <ul style="list-style-type: none"> <li>Refer to data collected from primary and / OR Secondary data sources.</li> <li>Discuss, describe, explain, analyse, interpret and use illustrations and statistics to demonstrate contribution how sugar production contribute to <b>economic development in your area.</b></li> <li>The discussion of the contribution may be shown on the indicators of economic development such as <b>employment, source of income, skills development, stimulating growth in the secondary industry, improvement of infrastructure, multiplier effect</b> etc)</li> <li>Contribution to each indicator may be discussed in a paragraph.</li> <li>Support your discussion with relevant illustrations (tables, graphs, pictures, maps etc) where appropriate.</li> </ul> | <b>2 Pages</b> |    |
|    | <p><b>7.2</b></p> <ul style="list-style-type: none"> <li>Refer to data collected from primary and / OR secondary data sources.</li> <li>Discuss, describe, explain, analyse, interpret and use illustrations and statistics to demonstrate contribution of sugar production to <b>food security.</b></li> <li>Contribution of sugar cane to food security may be demonstrated by discussing each indicator of <b>food security.</b></li> <li>Each indicator may be discussed in a paragraph.</li> <li>Support your discussion with relevant illustrations (tables, graphs, pictures, maps etc) where appropriate.</li> </ul>  | <b>2 Pages</b> | 14 |

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|-----|---|---------------------------|----|
| 8.  | <b>Findings and Recommendations</b>   |                           |    |
|     | <ul style="list-style-type: none"> <li>• <b>FINDINGS</b> may show outcome of the interpretation of data. Evaluation on each economic and food security indicator may show <b>findings</b> that the contribution of sugar cane to economic development and food security, for example is <i>significant or insignificant; is more or less; has evidence of contribution or no evidence of contribution; is increasing or decreasing; is rapidly showing impacts or consistently low; is direct or indirect etc.</i></li> </ul> | <b>1 Page</b>             | 12 |
|     | <ul style="list-style-type: none"> <li>• <b>Propose recommendations to your findings.</b></li> </ul>  |                           |    |
|     |   | 1 paragraph to ½ A4 Page. |    |
| 9.  | <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> </ul>  |                           | 8  |
| 10. | <b>Bibliography</b>   |                           |    |
|     | <ul style="list-style-type: none"> <li>• Write a bibliography using the Harvard method of referencing.</li> </ul>   | 1 Page                    | 4  |

| Marking Rubric                           | Name and Surname of Learner..... |          |           |   |                       |
|--|----------------------------------|----------|-----------|---|-----------------------|
| Activities                               | Marks                            |          |           | Information Required  | Length                |
|  | Total                            | Educator | Moderator |   |                       |
| Cover page                               | 3                                |          |           | <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                                    | 4                                |          |           | <ul style="list-style-type: none"> <li>Numbers</li> <li>Topics</li> <li>Sub-topics</li> <li>Page numbers</li> </ul>   | 1 A4 page             |
| Introduction                             | 8                                |          |           | <ul style="list-style-type: none"> <li>Brief background of economic sectors</li> <li>Overview of farming activities</li> <li>Overview of uses of sugar cane in South Africa</li> <li>Main Sugar Cane producing regions</li> <li>Examples of economic development indicators and food security indicators</li> </ul> | ½ A4 page             |
| Research Objectives                      | 8                                |          |           | <ul style="list-style-type: none"> <li>Indication of the intended impacts to be achieved by the research.</li> </ul>  | ½ A4 page             |
| Research Hypothesis                      | 8                                |          |           | <ul style="list-style-type: none"> <li>Statement of Assumptions based on the research topic and background information</li> </ul>   | ½ A4 pages            |
| Study Area                               | 5<br>5                           |          |           | <ul style="list-style-type: none"> <li>Description of the study area</li> <li>Map showing study area</li> </ul>   | 1 A4 page             |
| Data Collection                          | 7                                |          |           | <ul style="list-style-type: none"> <li>Sources of Primary / Secondary Data.</li> </ul>  | ½ A4 Page             |
| Discussions, Analysis and Interpretation | 14                               |          |           | <ul style="list-style-type: none"> <li>Discussions on economic development.</li> </ul>  | 2 Pages               |
|  | 14                               |          |           | <ul style="list-style-type: none"> <li>Discussions on food security</li> </ul>  | 2 Pages               |
| Findings and recommendations.            | 6                                |          |           | <ul style="list-style-type: none"> <li>Evaluation of information from discussions.</li> <li>Proposing recommendations from findings.</li> </ul>   | 1 Page                |
|  | 6                                |          |           |   |                       |
| Conclusion                               | 8                                |          |           | <ul style="list-style-type: none"> <li>Summarize main point in the findings</li> <li>Accept / Reject the hypothesis</li> </ul>  | ½ Page                |
| Bibliography                             | 4                                |          |           | <ul style="list-style-type: none"> <li>List of References</li> </ul>  | 1 Page                |
| <b>Total</b>                             | <b>100</b>                       |          |           |   | <b>9 -10 A4 pages</b> |