

RESEARCH INVESTIGATION GENRE GUIDE (Yrs 11 & 12)

SENIOR SCIENCES

Section	Relationship to criteria at a 5/6 LOA	What to include	Guide to Word Length (guide only)
CLAIM	State the claim you are interrogating	CLAIM (main heading) Copy the claim from the task sheet	Length of the Claim
RATIONALE	<ol style="list-style-type: none"> Informed application to develop a considered rationale and relevant research question Effective and efficient investigation using sufficient and relevant sources 	RATIONAL (main heading) <ul style="list-style-type: none"> - Start with research relating to the claim. - Include the steps/questions raised that led you from claim to research question. <input type="checkbox"/> Research Question (sub heading) State clearly your specific and relevant research question and include the steps/questions raised that led you to <input type="checkbox"/> Background Information (sub heading) Research related to the question using the terms in the research question as a guide to discussion. <input type="checkbox"/> In all sections ensure you are citing references in text and in your reference list to show the use of sufficient relevant sources. 	500 words
ANALYSIS AND INTERPRETATION <ol style="list-style-type: none"> You have been asked to identify a number of sources of data that will assist you to develop an answer to the research question. Ideally you would have 3 sources but 2 good sources will be acceptable While it is good to have articles that present different viewpoints this is not essential Articles must come from valid source – see PPT presentation in Assessment resources 	Systematic and effective analysis of the quantitative/qualitative data in the sources used by <ol style="list-style-type: none"> identification of sufficient relevant evidence thorough identification of relevant trends, patterns or relationships thorough and appropriate identification of the limitations of the evidence Insightful interpretation of research evidence to develop justified scientific arguments 	ANALYSIS AND INTERPRETATION (main heading) For each article found <ul style="list-style-type: none"> <input type="checkbox"/> Introduce the article – who was the author and the purpose of the study <input type="checkbox"/> Discuss briefly the method of data collection and the conclusion made by the author <input type="checkbox"/> Extract at least one data set from the article (Label as Fig. and provide a title) <input type="checkbox"/> For the data set <ul style="list-style-type: none"> - Identify trends, patterns and relationships in the data that support answering your research question - Identify the limitations of the study/data set in producing an answer (scope of study, statistical analysis, size of study, bias by author). - 	700 words – note tables of data and graphs do not contribute to this section’s word count

<p>EVALUATION Evaluating evidence</p> <ul style="list-style-type: none"> - Quality of the evidence - Evaluating the claim - Suggested improvements 	<p>Critical evaluation including</p> <ol style="list-style-type: none"> 1. insightful discussion of the quality of the evidence 2. extrapolation of credible findings to the claim 3. suggested improvements/extensions to the investigation relevant to the claim 	<p>EVALUATION (main heading) Now that you have completed your research how confident can you be that you have done enough to answer your research question and make comment on your claim? In this section</p> <ul style="list-style-type: none"> <input type="checkbox"/> Comment on the quality of the evidence collected in your study (does the scope of your investigation fully address the claim? Was your research conclusive?) <input type="checkbox"/> Extrapolate your finding from the research question to comment on the claim <input type="checkbox"/> Suggest improvements / extensions to your work that would improve your capacity to comment on the claim. Suggest areas of study that would more fully address aspects of the claim 	<p>500 words</p>
<p>CONCLUSION Summing up your findings</p>	<p>Insightful Interpretation of research evidence to draw justified conclusions linked to the research question.</p>	<p>CONCLUSION (main heading)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Briefly state the answer to your research question referring back to evidence (don't repeat the analysis) <input type="checkbox"/> Conclude whether or not your evidence supports or refutes the claim <input type="checkbox"/> Infer where future studies could lead 	<p>300</p>
<p>REFERENCE LIST</p>	<p>Using the Harvard Model</p>	<p>REFERENCE LIST (main heading)</p> <ul style="list-style-type: none"> - Sources must be: <input type="checkbox"/> Valid <input type="checkbox"/> Reference all diagrams and figures <input type="checkbox"/> Cited in text and well as in the Reference List <input type="checkbox"/> Do not populate a long list of sources that clearly have not been used 	
<p>Communication</p>	<p>Effective communication of understandings and research finding, arguments and conclusions demonstrated by</p> <ol style="list-style-type: none"> 1. fluent and concise use of scientific language and representations 2. appropriate use of genre conventions 3. acknowledgement of sources of information through appropriate use of referencing conventions 	<p>This is assessed throughout the report. Make sure you</p> <ul style="list-style-type: none"> <input type="checkbox"/> Use Headings as instructed and address the inclusions of each section (genre conventions) <input type="checkbox"/> Proof read to eliminate spelling and grammatical errors Label diagrams and tables appropriately (concise use of language and conventions) <input type="checkbox"/> Acknowledge sources in text and a reference list. (acknowledgement of sources) 	