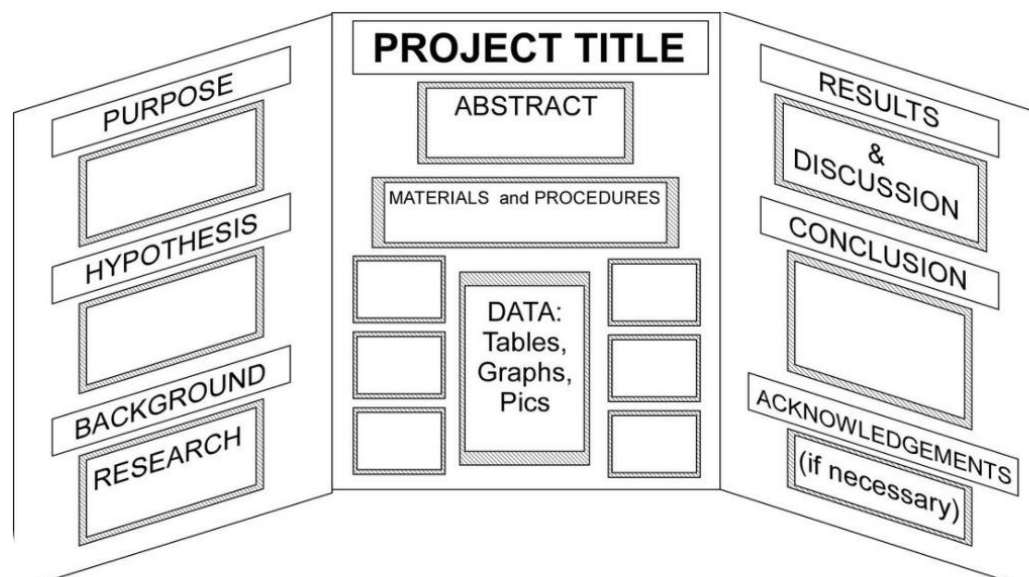


Learning Area Extension Certificate Science

Learning Area:	Science- Psychology
Extension Certificate Title:	How reliable is our memory? Think back to the last time you went to the supermarket? How well can you describe the person who was ahead of you in the check-out line? How many details do you remember about the person? How accurate do you think your memory is? Here is a project to investigate the accuracy of people's observations during everyday life.
Task Details:	<p>(Please include your name and year level on the document you submit to your teacher. No group work is accepted.)</p> <p>Purpose The purpose of this project is to investigate whether eyewitness reports are reliable enough to be used as substantial evidence in criminal investigations.</p> <p>Research To do this project, you should engage in research that enables you to understand the following terms and concepts:</p> <ul style="list-style-type: none">• memory• encoding,• storage,• retrieval,• forgetting curve,• false memory• eyewitness testimony <ul style="list-style-type: none">• What are the differences between short-term memory, long-term memory, and working memory?• What are some of the possible effects that questioning can have on memory recall? <p>Plan and Design your Investigation</p> <p><i>Your task is to design a research experiment that investigates if our memories can be manipulated and conclude the accuracy of human memory</i></p> <p>Communicate the results of your investigation</p> <p>The outcomes of your investigation need to be presented in a poster format (see example below)</p>



Victorian Curriculum Content Descriptors:

- Formulate questions or hypotheses that can be investigated scientifically, including identification of independent, dependent and controlled variables ([VCSIS134](#))
- Independently plan, select and use appropriate investigation types, including fieldwork and laboratory experimentation, to collect reliable data, assess risk and address ethical issues associated with these investigation types ([VCSIS135](#))
- Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations ([VCSIS140](#))

Resources Required:

Use the following website to assist you

1. <https://www.simplypsychology.org/loftus-palmer.html>
2. <https://www.simplypsychology.org/eyewitness-testimony.html>

Assessment Criteria Rubric

(Please note this is an 80% pass rate. If you would like to resubmit you have 7 days to do so)

	DESCRIPTOR: typical performance in each range				
	Very low	Low	Medium	High	Very high
<i>Design and undertake a practical investigation and present methodologies, findings and conclusions in a scientific poster.</i>	Some attempt at formulation of an investigable question with very limited outline of investigation design.	Mostly appropriate formulation of an investigable question with limited outline of investigation design.	Appropriate formulation of an investigable question with sound investigation design.	Accurate formulation of an investigable question with well-constructed investigation design.	Highly proficient formulation of an investigable question with comprehensive investigation design.
	Very limited understanding of the investigation with very limited explanation of its context, purpose, methodology and significance.	Limited understanding of the investigation with some explanation of its context, purpose, methodology and significance.	Sound understanding of the investigation with satisfactory explanation of its context, purpose, methodology and significance.	Thorough understanding of the investigation with detailed explanation of its context, purpose, methodology and significance.	Insightful understanding of the investigation with comprehensive explanation of its context, purpose, methodology and significance.
	Some attempt at collection and use of qualitative and quantitative data to	Some appropriate collection, selection and use of qualitative and quantitative data	Sufficient collection, selection and use of qualitative and quantitative data to	Purposeful collection, selection and use of qualitative and quantitative data to	Highly proficient collection, selection and use of qualitative and quantitative data

	draw some conclusions.	to draw relevant conclusions.	draw justified conclusions.	draw valid conclusions.	to draw valid conclusions.
	Limited presentation of investigation results to illustrate trends, patterns and relationships with limited identification of investigation limitations.	Some presentation of investigation results in an appropriate format to illustrate relevant trends, patterns and relationships with some identification of investigation limitations.	Appropriate presentation of investigation results in an appropriate format to illustrate relevant trends, patterns and relationships with sound identification of investigation limitations and sources of error.	Accurate presentation of investigation results in an appropriate format to illustrate relevant trends, patterns and relationships with detailed identification of investigation limitations and sources of error.	Highly proficient presentation of investigation results in an appropriate format to illustrate relevant trends, patterns and relationships with insightful identification of investigation limitations and sources of error.

	Limited description of the links between investigation findings and relevant scientific concepts, relationships and principles related to mental processes and psychological functioning.	Some appropriate analysis of the links between investigation findings and relevant scientific concepts, relationships and principles related to mental processes and psychological functioning.	Appropriate analysis and evaluation of the links between investigation findings and relevant scientific concepts, relationships and principles related to mental processes and psychological functioning.	Detailed analysis and evaluation of the links between investigation findings and relevant scientific concepts, relationships and principles related to mental processes and psychological functioning.	Sophisticated analysis and evaluation of the links between investigation findings and relevant scientific concepts, relationships and principles related to mental processes and psychological functioning.
	Limited coherence and cohesion in the communication of investigation aims, methodologies, findings and conclusions in scientific poster, with limited referencing and acknowledgments.	Some coherence and cohesion in the communication of investigation aims, methodologies, findings and conclusions in scientific poster, with some referencing and acknowledgments.	Satisfactory coherence and cohesion in the communication of investigation aims, methodologies, findings and conclusions in scientific poster, with appropriate referencing and acknowledgments.	Mostly coherent and cohesive sequencing and communication of investigation aims, methodologies, findings and conclusions in scientific poster, with complete referencing and acknowledgments.	Coherent and cohesive sequencing and communication of investigation aims, methodologies, findings and conclusions in scientific poster, with complete referencing and acknowledgments.

KEY to marking scale based on the outcome contributing 30 marks

Very Low 1–6	Low 7–12	Medium 13–18	High 19–24	Very High 25–30
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Once this task has been submitted, your subject teacher will do an initial assessment and moderate with a Learning & Teaching Leader to ensure a fair and equitable result. The subject teacher will communicate your result to you and if you receive an 80% or above you will be awarded your Extension Certificate. If you do not reach the 80% pass rate you will have 7 days to resubmit to achieve the 80% pass rate.