First Name:	Last Name:	Last Name:	
Student ID #:			
PSC 041	Research Methods in Psychology	WQ 2023	

Unit 3 Exam Version D Research Summary

For multiple choice questions, fill in the box to indicate your selection. Do not make stray marks in other boxes. For short answer questions, try to write on the lines and stay in the space provided.

Adapted from: Vredeveldt, A., Hitch, G. J., & Baddeley, A. D. (2011). Eyeclosure helps memory by reducing cognitive load and enhancing visualization. Memory & Cognition, 39(7), 1253-1263.

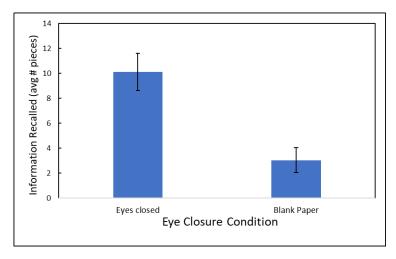
Thanks to the foibles of human memory, eye-witness evidence is notoriously unreliable. One attempt to help improve recall was to interview the witness in a situation that matches the original crime context as closely as possible. Now researchers have tested a simpler technique for improving eye-witness memory - getting them to close their eyes.

Ninety-six undergrads signed up for what they thought was a study into "social interactions". A research assistant took participants in groups of six for a walk around a Chicago block with a clipboard taking note of people they saw. All groups were taken for a walk around the same time of day during cloudy weather. While walking, two of the "participants" started arguing and insulting each other. These people were actually confederates. That is, they are secretly part of the research team but were acting as if they were participants. The altercation ended with one of the confederates knocking the other's clipboard to the ground and storming off. The researchers ensured each of the staged arguments was caught on film so that the participants' answers could be checked for accuracy.

After they had witnessed the public spat, the four actual participants were led away to another street location that closely resembled the scene of the incident. During the five-minute walk, the research assistant engaged the four participants in conversation to ensure that the participants did not replay the event in their heads. The participants were not yet aware that they would be asked to recall the incident or that the incident had been staged. When they arrived, they were asked to recall everything they could about the event. In each walking group, two participants were randomly assigned to be instructed to close their eyes during the recall (and were reminded appropriately if they

opened them at any point during the task); the other two were asked to stare at a blank sheet of paper on their clipboard (and were reminded appropriately if they looked away).

Overall, participants who closed their eyes recalled more useful (and verified) information (M = 10.11, SD = 1.53) about the argument than those in the blank paper condition (M = 3.02, SD = .97), t(84) = 8.32, p = 0.005. There were, of course, many useful pieces of information that could have been recalled. 5 people dropped out of the blank paper condition, stating that they felt awkward and uncomfortable to stare at a clipboard as people walked by. No one dropped out of the eyes-closed condition.



Predictor Variable

	Thinking about the Predictor / Independent Varia	ble: <u>Eye Closure Condition</u>	
5 pts	1. How did the researchers operationally define the predictor / independent variable? Describe it using your own words. Be sure to include the levels or values and indicate how the codes will be interpreted.		
5 pts	· ·	•	
5 nts		Continuous	
5 pts	Observation Self-Report	Physiological	
5 pts	4. Is this a causal or associative claim? (fill in the b	<u>.</u>	
10 pts	5. Evaluate the construct validity of the predictor / independent variable. ProTips: Give an overall evaluation. Think about the face validity, the procedure, and the method-match to inform your decision. Use specific vocabulary. Be sure to only discuss this one variable.		

Outcome Variable

	Considering the outcome / dependent variable: Memory Accuracy		
	Partial operational definition: : Total number (0-	#) of accurate pieces of info recalled	
5 pts	6. The Outcome / Dependent Variable is (fill in Categorical	the box) □ Continuous	
5 pts	7. How was the Outcome / Dependent Variable Observation Self-Report	le measured? (fill in the box) □ Physiological □ It was manipulated	
	Use this information only for the next two questions: Another researcher wants to extend this finding using research question. This researcher asked participang remembered. The rest of the procedure was exact	ng different methods to address the same ats to estimate how many details they	
5 pts	8. How was this new Outcome / Dependent Vo Observation Self-Report	ariable measured? (fill in the box)	
10 pts	9. Does the new outcome variable have stronger original variable? Explain your reasoning in a few se		

Evaluate Internal Validity

In the next two questions, describe how a threat to internal validity has been solved or why an effect might influence one group differently than the other. You may include evidence for either strengths or weaknesses.

ProTip: Use specific vocabulary and include details from the study. Have they started with equivalent groups? Have they ruled out everything else? Think about history, testing, mortality, maturation, and selection effects.

). For this research summary, evaluate one aspect of internal validity.
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ots 11	. For this research summary , evaluate one more aspect of internal validity .
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15 pts	12. For this research summary, 'Weather Conditions' is not a confound because		
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5 pts	13. To establish reliability, researcher should have had multiple research assistants check the accuracy of memory information in the video . □ Test-retest □ Split half □ Counterbalancing □ Alternate forms □ Manipulation check □ Interrater		
5 pts	 14. This research design was (fill in the box) between groups within group 		
5 pts	15. Explain how you know whether it was between groups or within group. ProTips: Use specific vocabulary and include specific details from this study. Indicate how many levels of the predictor variable each participant experienced.		

Summarize the findings

5 pts	16. The error bars for the eyes closed paper condition overlap. There likely a real relationship between a do; is do; is not do not; is do not; is do not; is not	fore, there	Information Recalled (avg # pieces) 14 15 16 17 18 19 19 19 19 19 19 19 19 19	closed Blank Paper Eye Closure Condition
5 pts	17. The p value is Therefore, the between the variables. □ less than 0.05; is □ less than 0.05; is not □ greater than 0.05; is □ greater than 0.05; is not	□ less □ less □ gre	s than 0.5; is than 0.5; is than 0.5; is eater than 0.	not 5; is
5 pts	18. Does this interpretation follow from this study: "Closing eyes during recall decreased recall." Why or why not?			

Multiple Choice . Select the <u>single best answer</u> box to the left of your selection. Avoid making 2 points each.	
19. In experimental research, we the independent variable. □ manipulate; controlled □ manipulate; measured □ measure; manipulated	e dependent variable after having control; measured manipulate; manipulated measure; measured
sunglasses condition. I have all drivers first drive without su	up design, the researcher could a sunglasses condition and half to a nonglasses and then with sunglasses.
Use this information for the following three qualities research assistants observe aggressive by children after seeing a non-aggressive cartoaggressive cartoon.	ehavior in a group of second-grade
21. This is a(n) design. □ post-test only □ matched pairs □ block design □ within group	□ Latin square□ concurrent measures□ between groups□ factorial
22. If neither the children nor the research as purpose of the study or the type of carto□ single-blind technique.□ double-blind technique.	
this study. Ask the children to select which ca Gather data from all of the children they watch the same cartoons in the Randomly assign the children to two	and have them join the second graders in artoons they would prefer to watch in the same room at the same time while he same order.

It ensures that the manipulatedIt ensures that the experimentalIt ensures that the confounding	riable is assigned to the correct group. variable is assigned to the correct group. and control groups are equivalent. variables are assigned to the control group variables are assigned to the experimental
The experimental group is served bacon, s	nts from a chemistry class that meets at to an experimental group and a control of the participants arrive at the lab at 8am, ausage, and eggs. The control group is ding out the food, he discovers that he has arians in the experimental group refuse to
25. He could move the vegetarians into the breakfast. What threat to internal valid	e control group and serve them the cereal ity would this introduce?
□ Selection	□ Testing
☐ History	☐ Attrition
Maturation	
26. He could remove the vegetarians from would this introduce?	the study. What threat to internal validity
\square Selection	□ Testing
☐ History	□ Attrition
☐ Maturation	
	the following week when he has had time akfast. He will arrange for their exam to be to internal validity would this introduce? □ Testing □ Attrition
28. He could ask the vegetarians to wait to plant-based breakfast. What threat to	or an hour while he prepares a high protein internal validity would this introduce?
□ Selection	, □ Testing
☐ History	☐ Attrition
☐ Maturation	