First Name:	Last Name:	
Student ID #:		
PSC 041	Research Methods in Psychology	WQ 2024

Unit 3 Exam Version C Research Summary

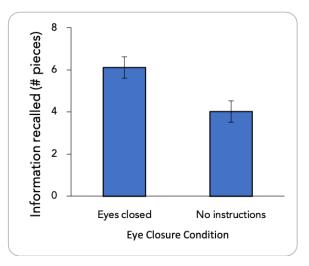
For multiple choice questions, fill in the box to indicate your selection. Do not make stray marks in other boxes. For short answer questions, try to write on the lines and stay in the space provided.

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, eyewitness 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 eyewitness 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 four for a walk around a New York city block with a clipboard taking note of people they saw. The study took place between 9am-12pm and 6-8pm. 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 two 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 two participants in conversation to ensure that the participants did not replay the event in their head. 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, one participant was 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 was not given any instructions about their eyes.

Overall, participants who closed their eyes recalled more useful (and verified) information (M = 6.11, SD = 2.12) about the argument than those in the eye open condition (M = 4.02, SD = 1.11), t(84) = 7.32, p = 0.01. There were, of course, many useful pieces of information that could have been recalled. Fifteen people dropped out of the eye-closed condition, stating that they did not feel comfortable standing on a street with their eyes closed. No one dropped out of the eyesopen condition.

Predictor Variable

	Considering the predictor / independent variable: Eye-Closure Condition		
10 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	2. The Predictor / Independent Variable is (fill in Categorical	the box) Continuous	
5 pts	0.11.0	le measured? (fill in the box) Physiological It was manipulated	
5 pts	4. Is this a causal or associative claim? (fill in the	e box) Associative	
20 pts	5. Evaluate the construct validity of the predictor ProTips: Give an overall evaluation. Think about the method-match to inform your decision. Use discuss this one variable.	the face validity, the procedure, and	

Outcome Variable

Partial operational definition: Accurate piec	es of info recalled
6. The Outcome / Dependent Variable is (fill Categorical	in the box) Continuous
7. How was the Outcome / Dependent VarioDbservationSelf-Report	able measured? (fill in the box) - Physiological - It was manipulated
Another researcher wants to extend this finding uresearch question. This researcher asked participate remembered the scene on a scale from 1 (I rem	using different methods to address the same pants to rate how well they felt that they nember nothing) to 10 (I remember
8. How was this new Outcome / DependentObservationSelf-Report	Variable measured? (fill in the box) PhysiologicalIt was manipulated
 stronger; better method match weaker; better method match stronger; worse method match weaker; worse method match 	
	7. How was the Outcome / Dependent Vario Observation Self-Report Use this information only for the next two quest: Another researcher wants to extend this finding or research question. This researcher asked particitive remembered the scene on a scale from 1 (I remeverything). The rest of the procedure was exacted to the procedure w

Evaluate Internal Validity

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.

10. For this research summary, there is an attrition/mortality effect because
11. For this research summary, 'time of day" is not a confound because
12. To establish reliability, the researcher should have had multiple research assistants check the accuracy of memory information in the video. □ Test-retest □ Interrater □ Split half □ Counterbalancing □ Alternate forms □ Manipulation check
 13. This research design was (fill in the box) between groups within group

Summarize the findings

- 5 pts 14. The error bars for the no instruction condition and eye-closure condition ____ overlap. Therefore, there likely ___ a real relationship between the variables for this condition?
 - □ do; is
 - □ do; is not
 - □ do not; is
 - □ do not; is not



- 5 pts 15. The p value is _____. Therefore, there ____ a statistically significant relationship and eyes-closed vs no instruction affected memory accuracy.
 - □ greater than 0.05; is
 - □ greater than 0.05; is not
 - □ less than 0.05; is
 - □ less than 0.05; is not

- \Box greater than 0.5; is
- greater than 0.5; is not
- □ less than 0.5; is
- □ less than 0.5; is not
- 5 pts 16. Does this interpretation follow from this study: "Closing eyes during recall increased 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.	
 17. In experimental research, we the dependent variable. manipulate; control manipulate; measure measure; manipulate 	independent variable and the control; measure manipulate; manipulate measure; measure
 18. A researcher wants to know whether wear performance. To design a counterbalance could randomly assign half the drivers to a sunglasses condition. have all drivers first drive without sung have half the drivers first drive without and have the other half first drive with sunglasses. None of these 	ed within groups design, the researcher sunglasses condition and half to a no-glasses and then with sunglasses.
Use this information for the following three que developmental psychology lab observe pro-so after seeing an adult modeling helping behave modeling antisocial behavior.	ocial behavior in a group of toddlers
19. This is a(n) design. matched pairs block design within group post-test only	Latin squareconcurrent measuresbetween groupsfactorial
 20. If neither the toddlers nor the research assist purpose of the study or the type of behavior a counterbalanced design. self-report. 	
 21. The researcher is concerned that maturation this study. Let's fix that. Recruit older children to be participated. Randomly assign the toddlers to two watches the helping behavior first, the behavior second. Ask the toddler's parents to select where Gather data from all of the toddlers in watching the helping behavior first a behavior. 	nts in this study. order conditions. One condition e other condition watches the helping nich behavior they would prefer n the same room at the same time

ZZ. \	_ It	ensures that the confounding variables are group.	assigned to the experimental
	o II o II	t ensures that the confounding variables are tensures that the measured variable is assign tensures that the manipulated variable is assign tensures that the experimental and control of eliminates internal validity	ned to the correct group.
affeo 10ar grou The o serve a lot	cts perform. He ra up. On the experimed cere- of vege	enter wants to know if eating a big protein bormance. He recruits participants from a chembrance and assigns participants into an experimine day of their first midterm, all of the participental group is served bacon, sausage, and al, toast, and fruit. As he is handing out the fetarians in his study. The vegetarians in the econ or sausage. Help him think through his open	emistry class that meets at ental group and a control cants arrive at the lab at 8am. eggs. The control group is ood, he discovers that he has experimental group refuse to
t	o plan o postpon 	d ask the vegetarians to return the following a high protein plant-based breakfast. He will led for one week. What threat to internal val Selection History Maturation	arrange for their exam to be
	olant-bo	d ask the vegetarians to wait for an hour whased breakfast. What threat to internal validit Selection History Maturation	
	oreakfas	d move the vegetarians into the control grounts. What threat to internal validity would this is Selection History Maturation	-
	would th	d remove the vegetarians from the study. Whis introduce? Selection History Maturation	nat threat to internal validity Testing Attrition

27. Which threat to internal validity describes differences in when the data was gathered?		
□ Selection	☐ Testing	
•	□ Attrition	
Li Maturation		
Which threat to internal validity describes diffe ☐ Selection ☐ History ☐ Maturation	erences in the duration of the study? ☐ Testing ☐ Attrition	
•	erences in how often the outcome	
	☐ Testing	
	☐ Attrition	
☐ Maturation		
indicates the direction and strength of a revariables.	elationship between two continuous	
□ compares two group averages.		
\square indicates statistical significance if it is < 0.05	5.	
	elationship between two continuous	
variables.	edilotiship between two continuous	
□ compares two group averages.		
\square indicates statistical significance if it is < 0.05	5.	
	gathered? Selection History Maturation Which threat to internal validity describes differed in the selection History Maturation Which threat to internal validity describes differed in the selection History Selection History Maturation Maturation History Maturation Maturation History Indicates the direction and strength of a revariables. Compares two group averages. Indicates statistical significance if it is < 0.05 D Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Compares two group averages. Indicates the direction and strength of a revariables. Indicates the direction and strength of a revariable Indicates the direction and strength	