

PSY 222 Fall 2024

Instructions for class research study

Each student will test two college students. The two study participants should be tested separately, and they should not be told there are two different study conditions.

Inform each student that their participation is voluntary and will take about 15 minutes.

Test each student in a quiet, distraction-free, environment.

After the first student has agreed to participate, toss a coin to determine their condition:
heads = no phone, tails = phone.

Test the second student in the other condition.

For each participant, provide a pencil and sheet of paper for recall.

Instructions for the study phase: “Thank you for taking part in our study. First, I will give you a list of words. You will have 4 minutes to study the words. Try to remember as many as you can, since there will be a test later. Any questions?”

Instructions for the retention interval:

Phone condition: “Please spend the next 5 minutes looking at your phone.”

No phone condition: “Please spend the next 5 minutes doing nothing.”

Instructions for the test phase: “You have 3 minutes to write down as many of the words as you can.”

“Thank you for helping with our study. Do you have any questions?”

Record the following information for each participant:

Participant 1: age _____ gender _____ condition _____ words recalled _____

Participant 2: age _____ gender _____ condition _____ words recalled _____

automobile

attitude

trumpet

truth

mother

length

missile

law

factory

facility

slipper

quantity

acrobat

amount

microscope

justice

pudding

obedience

hospital

hint

Study preregistration, based on questions at aspredicted.org

1) Have any data been collected for this study already?

No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?

After studying new information, does a brief period of phone use (e.g., scrolling through social media) affect memory for the information?

3) Describe the key dependent variable(s) specifying how they will be measured.

The main dependent variable is the number of words recalled.

4) How many and which conditions will participants be assigned to?

Participants will be randomly assigned to one of two conditions: phone use during the retention interval, or doing nothing during the retention interval.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.

The recall scores of the two groups will be compared. We will present descriptive statistics (mean, standard deviation) and a graphical comparison (raincloud plot). We will do a traditional t-test (nondirectional) and a Bayesian t-test using the defaults in JASP to obtain a Bayes factor.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.

We expect no outliers for the recall scores. Any analysis that excludes observations will be identified as exploratory.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.

We plan to test 15 participants in each condition.

8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)

No. All other analyses will be identified as exploratory.