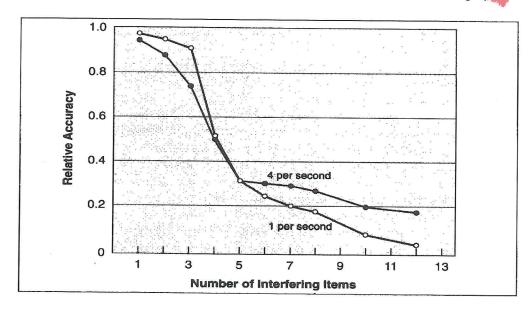
Van Selst Psyc 135 Introduction to Cognitive Psychology: Fall 2011 Midterm 2, chapters 3-5 (15% of final grade)

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Midterm 2 is 15% of your final grade; 16 points total, graded out of 15 (Kellogg Chapters 3, 4, & 5)

 Waugh & Norman (1965) performed an experiment in which they varied the rate of presentation of items in a probe-digit task. The presentation rate was either 1 digit per second or 4 digits per second. The data from the subjects is summarized in the graph below.



a. Describe the "Probe-Digit Task" used by Waugh & Norman

7 6 4 [] 2 9 4

GET A LIST OF #5 presented: A LAST is A VEREAT.; WHAT # Followed

Describe the theoretical interpretation that Waugh & Norman provide to describe the

INITALLY 2

results they obtained when using their probe-digit task. What was the major theoretical alternative? What was the logic of their interpretation?

Interferenced (rather than decay)
Time was less important that # of interest

Consider Craig and Lockhart's LEVELS OF (Depth of) PROCESSING account?
 (a). Describe the proposal

DESPER = BETTER MEMORY

(b) NAME and DEFINE two problems with this Craik & Lockhart account.

i. TASK EFFECTS. (STUDY-TEST MATCH

il circularity of DOFMANE.

how good morrow ?.

· Transfor Appropriates
Processing

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3. Consider the "Sternberg Memory search" task:

(a) DESCRIBE the "Sternberg memory search task"

Memory SET into memory ProBE pourded

(b) Draw a figure (picture) illustrating the results of the data produced by the "Sternberg memory search task". Label the X and Y axes with appropriate meaningful labels.

(c) What are the theoretical conclusions one should draw from the observed results from when participants perform the Sternberg memory search task?

SERTAL EXHAUTTING SEARCH For Monory

4. DRAW a "typical" serial position curve. LABEL the axes. LABEL the important features.

position. LIST

5. DEFINE each of:

(i) The dual-coding hypothesis (dual-coding theory)

> VINAL + VerBAL BOTH info sources storage (CUES For RECAU

(ii) Serial self-terminating search

hArd voust so Arch / End when Find.

(iii) **Encoding Specificity**

(iv)

Things Encoded include other Elements coded @

1) The "binding problem"

SAME time + Operation Dones on

IN FO helps Determines what

Processing of same item is stoned.

Across Differed Bran

REgions / ITEN Chanx

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6. Answer each MULTIPLE CHOICE question:

What deficit is associated with (bilateral) damage to the hippocampus?

- A. Aphasia
- B. Agnosia
- C Anterograde Amnesia
- D. Proactive Interference

When new learning interferes with your ability to perform some action that you used to be able to do, this is referred to as:

- A. Retrograde Interference
- B. Anterograde Interference
- Retroactive Interference
 - D. Proactive Interference

What has been proposed to be the most important aspect of Geiselman's Cognitive Interview?

- A. warning interviewees against bias
- B. recall all
 - C. reinstate context
 - D. recall in a variety of orders
- 7. Provide an example of "Release from PI"
 - include a description, a definition, and an illustration

Charge in topic => Better RECAU for Next List/AMB of items.

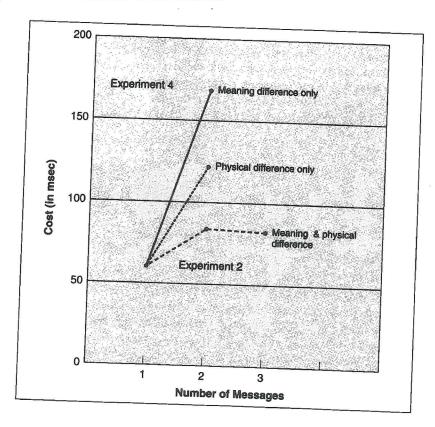
| Flowers Plowers Plower professions. RECALL Flower LISTI LISTZ

L1373

LBTY

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This graph shows the Johnston & Heinz result.



note: X-axis is cost (ms); y-axis number of messages; top line "meaning difference only"; middle line "physically different only", bottom line "both meaning and physical differences".

a. What was the methodology used by Johnston & Heinz (what was the experiment like? What were the conditions? What did the subjects do?)

> to light; simultanoously listen to 1,2,3 Phrases spoken - Lister For contest ...

b. What are the *theoretical implications* of the Johnston & Heinz results?

Multimode Model of Arm = EAMY SEL'N EASIEN TLAN
In Baddley's model of Working Memory what are the components and their primary
functions?

Working Working Working Show COUTIN EXEC. - CONTAL Oh andlogizAL Loops - And itemy

10. SHORT ANSWER:

(b) When participants in a "list memorization test" (free recall) is delayed by another intervening task, what is the most likely result (other than a generally lower total number of items recalled)?

RECENCY EFFECT DECNEASES.

(c) What can we learn for a T-O-T state? (i.e., what does TOT stand for and what does its existence tell us?)

MORE MEMORY ARE THERE than Expirally AVAILABLE.

- 11. FINISH this list of at least TEN different "TYPES" of memory that have been discussed or mentioned in class....
 - A. SENSORY (e.g., Echoic, Iconic, Haptic, ...)
 - B. SHORT TERM
 - C. LONG-TERM
 - D. DECLARATIVE
 - E. NONDECLARATIVE
 - F. Working

SEMANTIC

- G. procedural
- H. Explicit
- I. Implicit
- J. UNCONSCIOUS

12. Describe GEORGE SPERLINGS work on ICONIC MEMORY. Describe the methodology, draw the results, and describe the conclusions.

FLASH grid.

X J D P

T S M V

E I A Y

CUS TONE

now.) - --> C

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13. (i) If someone were to be intoxicated (BAC .08) during encoding, and then their scores were tested when (1) sober or (2) equivalently intoxicated (BAC .08). Which condition would produce better recall for a list of items?



(ii) If someone were to be sober during encoding, and their scores were tested when (1) sober or (2) when intoxicated (BAC .08); which condition would produce better recall for the list of items?



a. draw a graph of your expected findings. Label the graph appropriately.

PECAN STUDY SUBER

O STUDY AIC.

AIC SUR TRANSFER Appopular procession = 25 pairs condition 14. Discuss two alternative explanations for Childhood Amnesia

FAILURE AT RETRIEVAL

(3) INTERFERENCES
- LOST W/ NEW M.FO.)

15. Describe one piece of evidence for each of:

- Early Selection - shadowing Little into SEP. Chand,
- Late Selection - COCRTAIL PARTY EFFECT.
- State-dependent learning

1 BONUS POINT

16. DEFINE

a) Self-reference effect

Thenry (mnemous) w/ SSIF-references.

Von Restorff effect

1 memory Distructure Subjective organization

- personal org. to of NEU dum record

Brown-Peterson Task

- WXJ -273, ...270, 267... (xTime) (prems NULLANSAL) THEORY - D MOMOR'Y LOSS (STM) FROM? DECAY?