Midterms/Finals Study Tips Evidenced-Based Solutions

Midterms/Finals Study Tips

- Why do we have midterms/finals?
- What are ineffective strategies?
- What works?
 - Why?
 - How to implement it?

Assessment

• What are we trying to assess?

Assessment

What are we trying to assess?

Learning

What does it mean to have learned something?

- To determine what will happen in the future
 - Will you remember important content knowledge?
 - Can you apply these topics?
 - Have you learned how to think?

What are Ineffective Strategies?

- Re-reading
- Re-copying notes
- Underlining/Highlighting
- Encoding Cues
- Cramming

What are Ineffective Strategies?

- Re-reading (66%)
- Re-copying notes (33%)
- Underlining/Highlighting (72%)
- Encoding Cues (41%)
- Cramming (66%)

Is Cramming That Bad?

What are Effective Strategies?

What are Effective Strategies?

- Spacing
- Retrieval Practice
- Criterion Learning
- Transfer Appropriate Learning
- Successive Re-Learning

- Cramming
 - 12 hours of study in 1 day
- Spacing
 - 3 hours of studying across 4 days

	% Correct		
Retention interval	Massed	Spaced	SE
1–59 s	41.2	50.1	1.7
1 min-less than 10 min	33.8	44.8	1.5
10 min-less than 1 day	40.6	47.9	8.1
1 day	32.9	43.0	6.0
2–7 days	31.1	45.4	7.3
8-30 days	32.8	62.2	8.8
31 days or more	17.0	39.0	
All retention intervals	36.7	47.3	1.1

- How to implement it?
 - Plan ahead!
 - Create a schedule

Date	Topic	Hours
Nov. 30	Biology	4
Dec. 1	Psychology	4
Dec. 2	History	4
Dec. 3	Biology	3
Dec. 4	Psychology	3
Dec. 5	History	3
Dec. 6	Biology	2
Dec. 7	Psychology	2
Dec. 8	History	2
Dec. 9	FRIDAY BREAK!	
Dec. 10	Biology	2
Dec. 11	Psychology	2
Dec. 12	History	2

- How to implement it?
 - Plan ahead!
 - Create a schedule
 - Let's be realistic...

Date	Topic	Hours
Nov. 30	Biology	1
Dec. 1	Psychology	1
Dec. 2	History	1
Dec. 3		
Dec. 4	Biology	2
Dec. 5	Psychology	2
Dec. 6		
Dec. 7	History	2
Dec. 8		
Dec. 9		
Dec. 10	Biology	4
Dec. 11	Psychology	4
Dec. 12	History	4

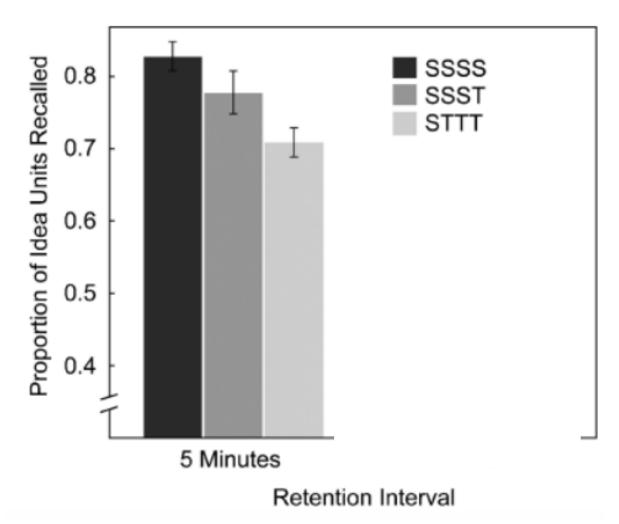
Date	Topic	Hours
Nov. 30	Biology	1
Dec. 1	Psychology	1
Dec. 2	History	1
Dec. 3		
Dec. 4	Biology	2
Dec. 5	Psychology	2
Dec. 6		
Dec. 7	History	2
Dec. 8		
Dec. 9		
Dec. 10	Biology	4
Dec. 11	Psychology	4
Dec. 12	History	4

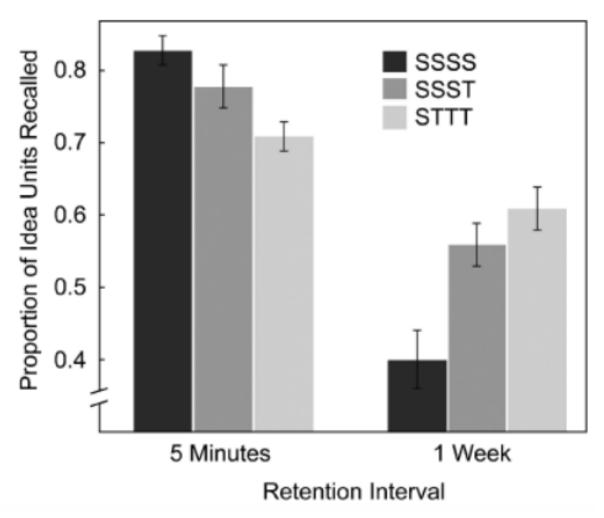
Cramming

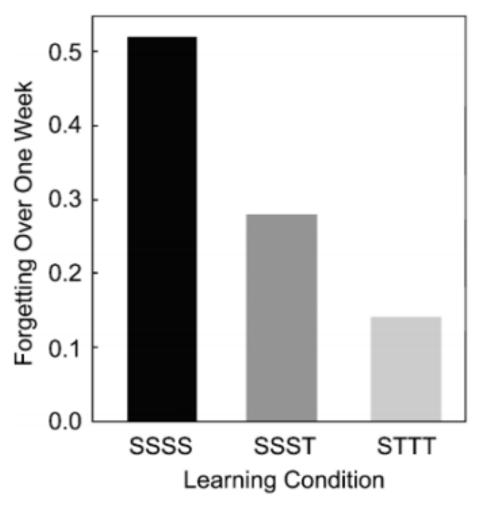
Date	Topic	Hours
Nov. 30		
Dec. 1		
Dec. 2		
Dec. 3		
Dec. 4		
Dec. 5		
Dec. 6		
Dec. 7		
Dec. 8		
Dec. 9		
Dec. 10	Biology	10
Dec. 11	Psychology	10
Dec. 12	History	10

- You have two choices for how to study for your final:
 - Option A
 - Study for 1 hour
 - FINAL

- You have two choices for how to study for your final:
 - Option B
 - Study for 1 hour
 - Take a test
 - Take a test
 - Take a test
 - FINAL







Whyyyyy???

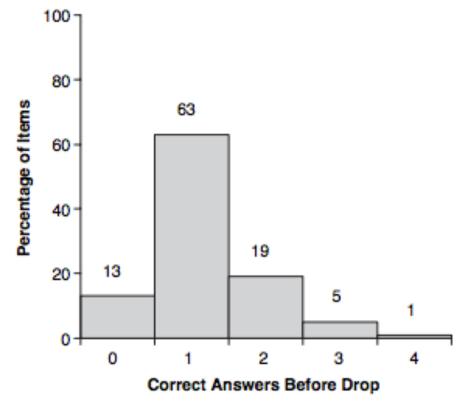
Encoding

Retrieval

- How to implement it?
 - Flashcards
 - Do NOT turn over and read
 - PRACTICE RETRIEVAL!
 - Practice Tests
 - Ask your professor
 - Make your own

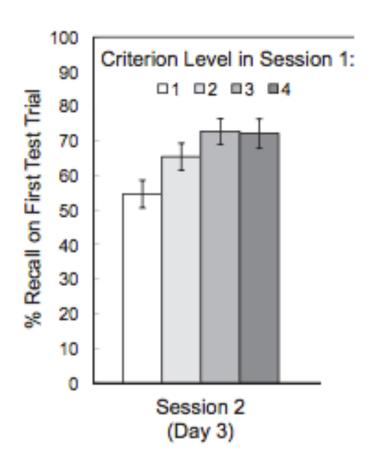
• What do you do with flashcards after you answer them?

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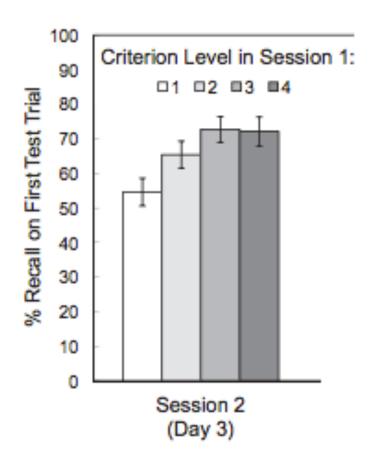


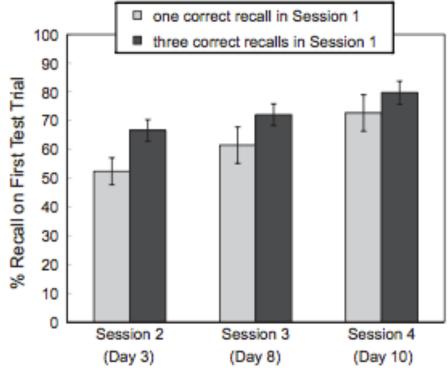
Kornell & Bjork, 2008

What should you do with flashcards after you answer them?



What should you do with flashcards after you answer them?





Kornell & Bjork, 2008

How to implement it?

Metacognition

- Flashcards
 - Keep track of correct answers
 - Make a mark on the card

Transfer Appropriate Processing

Are flashcards always the best?

Transfer Appropriate Processing

Are flashcards always the best?

It depends on the type of test!

- TAP
 - Study consistent with test format

Transfer Appropriate Processing

- Are flashcards always the best?
- Multiple Choice Test
 - Give yourself options on flash cards
- Short Answer Test
 - Write out short answers
- Essay Test
 - Don't use flashcards

Successive Relearning

- Combines all methods
 - Spaced retrieval practice to set criterion

- How should you study?
 - Space out studying across X days
 - Practice retrieving information each time
 - Retrieve it at least once, but preferably thrice
 - Use the appropriate format

Basics

- External factors influence your memory
 - Sleep
 - Memory consolidation
 - Stress
 - Glucocorticoids
 - Food
 - Neuronal function/connection/learning = protein formation
 - Relaxation
 - Attention Restoration Theory

Questions?