## Memory

Objective's for Today's Class:
Why do we forget?
What is amnesia?

## If you couldn't forget, your mind would be filled with meaningless data.

The ability to forget is essential to the proper functioning of memory

## Normal Forgetting

a Memory
During any delay a memory is subject to the effects of $\qquad$ time and interference from other experiences

Memories seem to be forgotten $\qquad$

You are more likely to forget something you did not pay attention to when it originally happened

## Normal Forgetting

Found that most forgetting occurs during the first 9 hours after learning

After the first several hours - forgetting levels off and slows at that point

> Decay:


## Reasons for Forgetting

Encoding failure
Information was either encoded improperly or not at all

## Storage failure

Through the lack of use and rehearsal information is gone
Retrieval failure
The information is in long-term memory but you are unable to access it

Interference
Proactive interference
Retroactive interference

## Proactive Interference

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A decrease in accurate recall of information as a result of the effects of previously learned or presented information

Old material increases forgetting of the new material
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## Example

A student studies for a psychology test on Saturday and a sociology test on Sunday. It is Monday and the student is taking the sociology test. He has trouble remembering the sociology information because he $\qquad$ confuses it with the psychology information.

The psychology information was learned first The sociology information was learned second

The first information interfered with remembering the second information

Psychology, learned beforehand, interferes proactively


Proactive Interference

## Another Example of Proactive Interference

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Pretend that you are recently out of a long-term relationship but you have found a new flame. Now $\qquad$ you are out on that all-important third date with your new love interest. The lights are low, the champagne and strawberries are served. The music in the restaurant is soft and romantic - you are reaching across the table to take your date's hand. You are looking deeply into his or her eyes, you are about to tell them what a wonderful evening it is and how happy you are to be out with him or her, and then out of your mouth, before you realize it, comes - the name of your ex!!!

## Retroactive Interference

New information interferes with recall of old information $\qquad$
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New material increase forgetting of the older material

## Example

A student studies for a psychology test on Saturday and a sociology test on Sunday. It is Monday and the student is taking the psychology test. He has trouble remembering the psychology information because he confuses it with the sociology information.

The psychology information was learned first The sociology information was learned second

The second information interfered with remembering the first information

Sociology, learned afterwards, interferes retroactively


Retroactive Interference
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Pretend that you've been sneaking around on $\qquad$ your long-term girlfriend/boyfriend for a couple of months. One day, while talking to your significant other in some casual context, you address them by the name of your secret lover.

New information has interfered with your recall of older information.

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## Amnesia

Severe loss or deterioration of memory

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## Are Memories Accurate?

False Memory Formation
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[^0]:    Amnesiacs show preserved performance on tests of implicit memory (which do not require conscious recollection for successful performance)

    On tests of explicit memory, amnesiacs show much more severely impaired performance (requires that the individual recognize the correct answer and be aware that long-term memory is being tapped)

