

Beyond Traditional Teaching:



*Combining brain-friendly learning
with technological tools*

Sara L. Tilleman - February 2018





Research: College Students More Distracted Than Ever

Main Takeaway

Take advantage of evidence-based research and technological tools to make your teaching more sticky and learner-centered.

Teaching = ~~Learning~~

What's on the agenda?



**Our
teaching
approach**



**Brain-
friendly
learning**



**Technology
as your
assistant**

Our teaching approach



Is traditional teaching effective?



Traditional Teaching



Sage on the Stage

21st Century Teaching



Guide on the Side

More Active Learning



What is your teaching approach?

Teacher
Centered
Approach

What did I teach today?

Student
Centered
Approach

What did my students learn today?

**Brain-
friendly
learning**



**“Learning is
counterintuitive.”**

make it stick



The Science of Successful Learning

Peter C. Brown

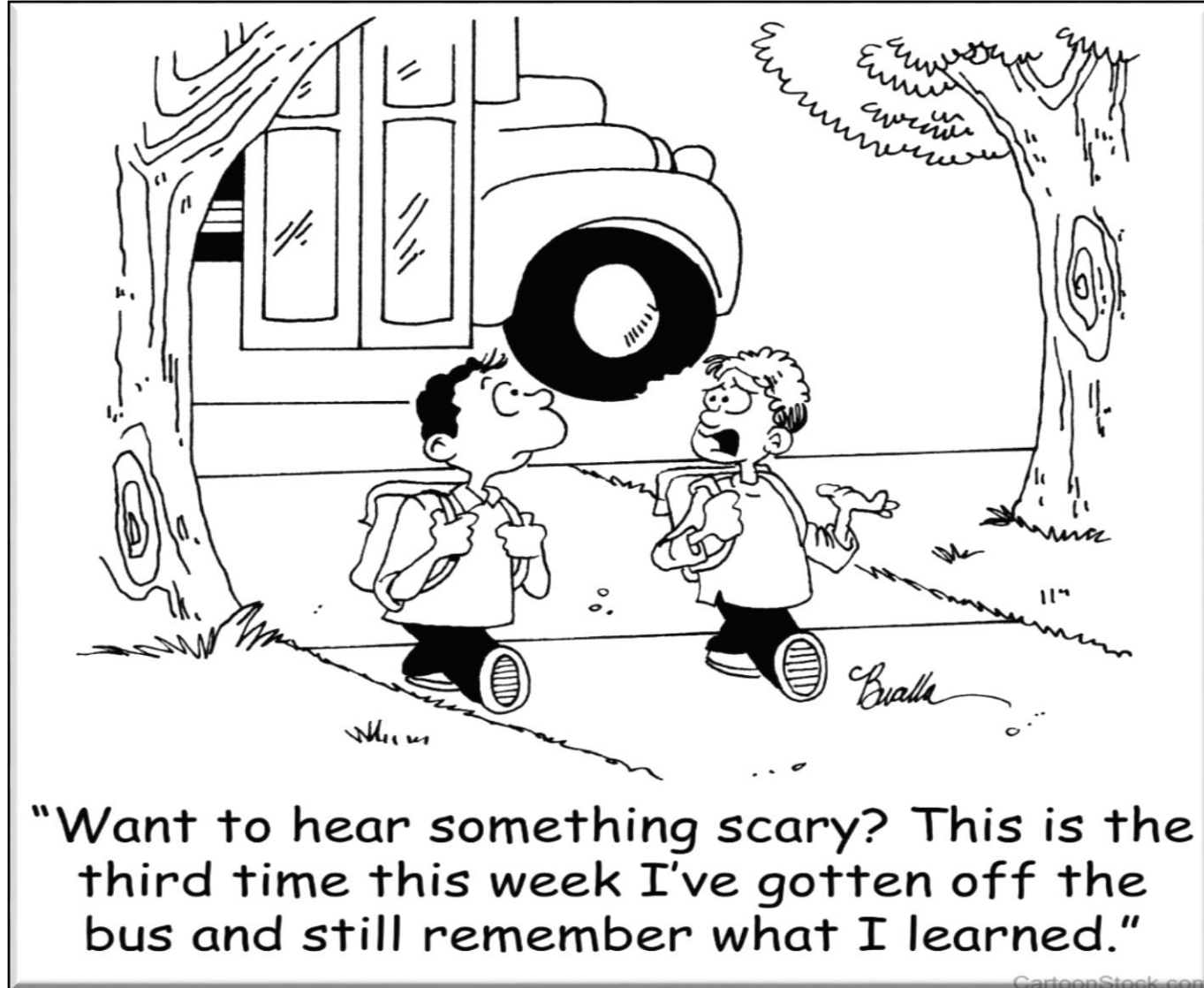
Henry L. Roediger III

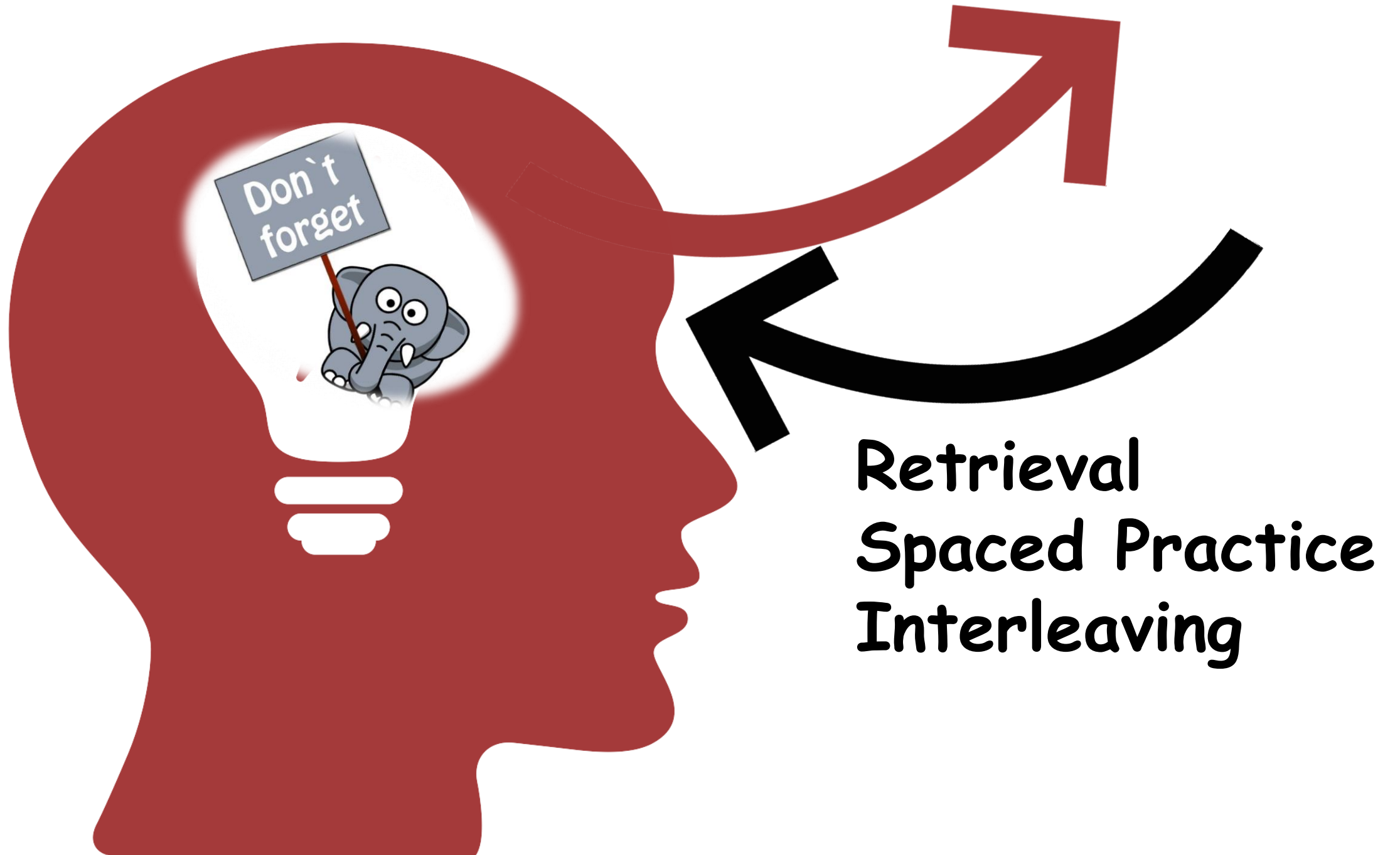
Mark A. McDaniel



The Forgetting Curve

(Ebbinghaus, 1885)



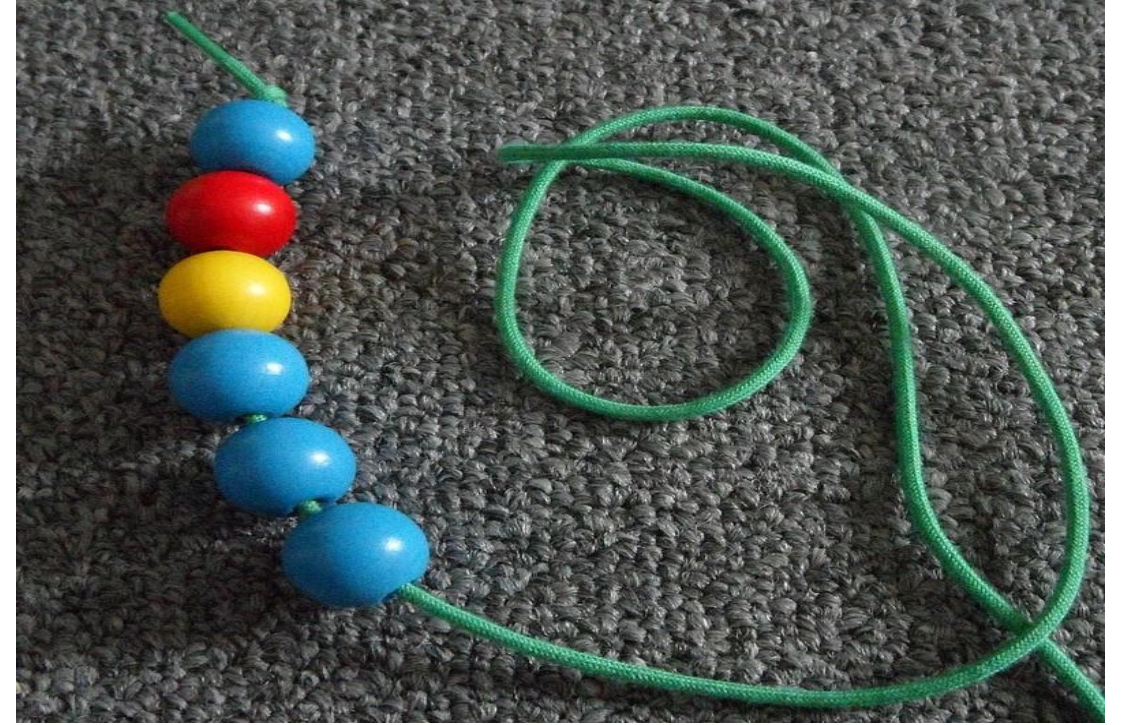
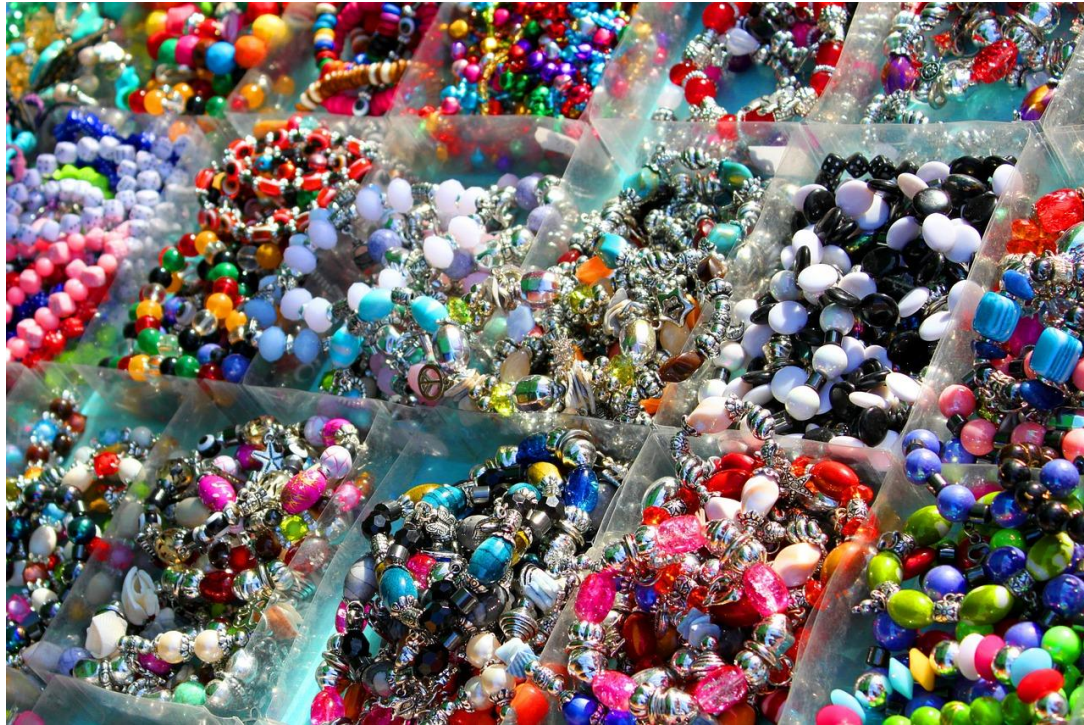


Don't
forget

**Retrieval
Spaced Practice
Interleaving**

Retrieval ties the knot for memory

Repeat to Remember



Testing interrupts forgetting!

Seven Principles for Good Practice in Undergraduate Education (Chickering & Gamson 1987)

1. Encourages contacts between students and faculty
2. Develops reciprocity and cooperation among students
3. Uses active learning techniques
4. Gives prompt feedback
5. Emphasizes time on task
6. Communicates high expectations
7. Respect diverse talents and ways of learning

Types of Feedback

Formative



Summative



Testing interrupts forgetting!

CAT = Classroom Assessment Techniques

Low Stake Quizzes

Mix up the topics
(interleaving)

Exit Ticket

One Minute Paper

Muddiest Point



- What was the most important thing you learned today?*
- What point are you confused about from today's lesson?*
- What questions do you still have?*



socrative

by MasteryConnect

Tasks before Apps

(Monica Burns)



padlet

What can Socrative do for me?

The screenshot displays the Socrative user interface. At the top, there is a blue header bar containing the Socrative logo on the left, the year '1948' in the center, and the user name 'Sara' with a dropdown arrow on the right. Below the header, a navigation bar features five tabs: 'LAUNCH' (underlined), 'QUIZZES', 'ROOMS', 'REPORTS', and 'RESULTS'. To the right of these tabs is a notification bell icon with a '0' and a dropdown arrow. The main content area shows three large circular icons: 'Quiz' (a document with a signal icon), 'Space Race' (a rocket), and 'Exit Ticket' (a document with an arrow). The 'Quiz' and 'Exit Ticket' icons are circled in red. Below these is a section titled 'QUICK QUESTION' with three smaller circular icons: 'MC' (Multiple Choice), 'TF' (True / False), and 'SA' (Short Answer). A large red arrow points from the left towards the 'MC' icon.

1948

Sara ▾

0 ▾

LAUNCH QUIZZES ROOMS REPORTS RESULTS

Quiz Space Race Exit Ticket

QUICK QUESTION

MC TF SA

Multiple Choice True / False Short Answer

Show Names Show Answers

↑	Score (%)	1	2	3	4	5	6	7	8	9	10
	88%	D	D	A	B	A	D	C	A	B	everythi
	88%	D	D	A	C, B	A	C	C	A	B	k
	100%	D	D	A	C, B	A	D	C	A	C	קשה לי
	88%	D	D	A	C	A	D	C	A	B	הכול בה
	38%	D	D	A	D						
	88%	D	D	A	C	A	D	C	A	A	I unders
	100%	D	D	A	C, B	A	D	C	A	A	הכל מעול
	100%	D	D	A	C, B	A	D	C	A	B	איך אומר
	63%	A	D	A	C, B	B	D	B	A	B	g
	88%	C	D	A	C, B	A	D	C	A	B	f
	88%	D	D	A	D, B	A	D	C	A	B	good
	63%	D	D	A	D	A	B	C	C	B	כמה משפט



padlet

padlet

REMAKE SHARE

Sara Tilleman +13 • 9mo

Love Hormone

Tamir & Tali
_____ to his cognitive skills, he overcame the physical difficulties that appeared _____ of the CVA

I want to sleep _____ I have to learn english _____ of the final test
_____ i ate breakfast already Im still hungry

She can't walk, _____ she has special aids
The baby can't eat by himself _____.

Ofek & adi
Tonight my boyfriend and I go to a concert. _____ I bought a new dress yesterday.

Liora&Stav
I want to travel the world _____ I have no money.
I annoyed my cat _____ she scratched me.
_____ I'm a student, I have no money.

Michal & Adi
we bought 4 dresses _____ to the red shoes we got.
I am tired _____ the fact I went to sleep early.
I wanted to go to the sea with my friend, _____ he could not

+



Thank you!



Contact Information

saragilot@gmail.com

0506955345



<https://youtu.be/sGWpXfKnqIE>